

REPUBLIC OF EGYPT

MINISTRY OF PUBLIC HEALTH, EGYPT

ANNUAL REPORT

ON THE WORK OF THE

Ministry of Public Health

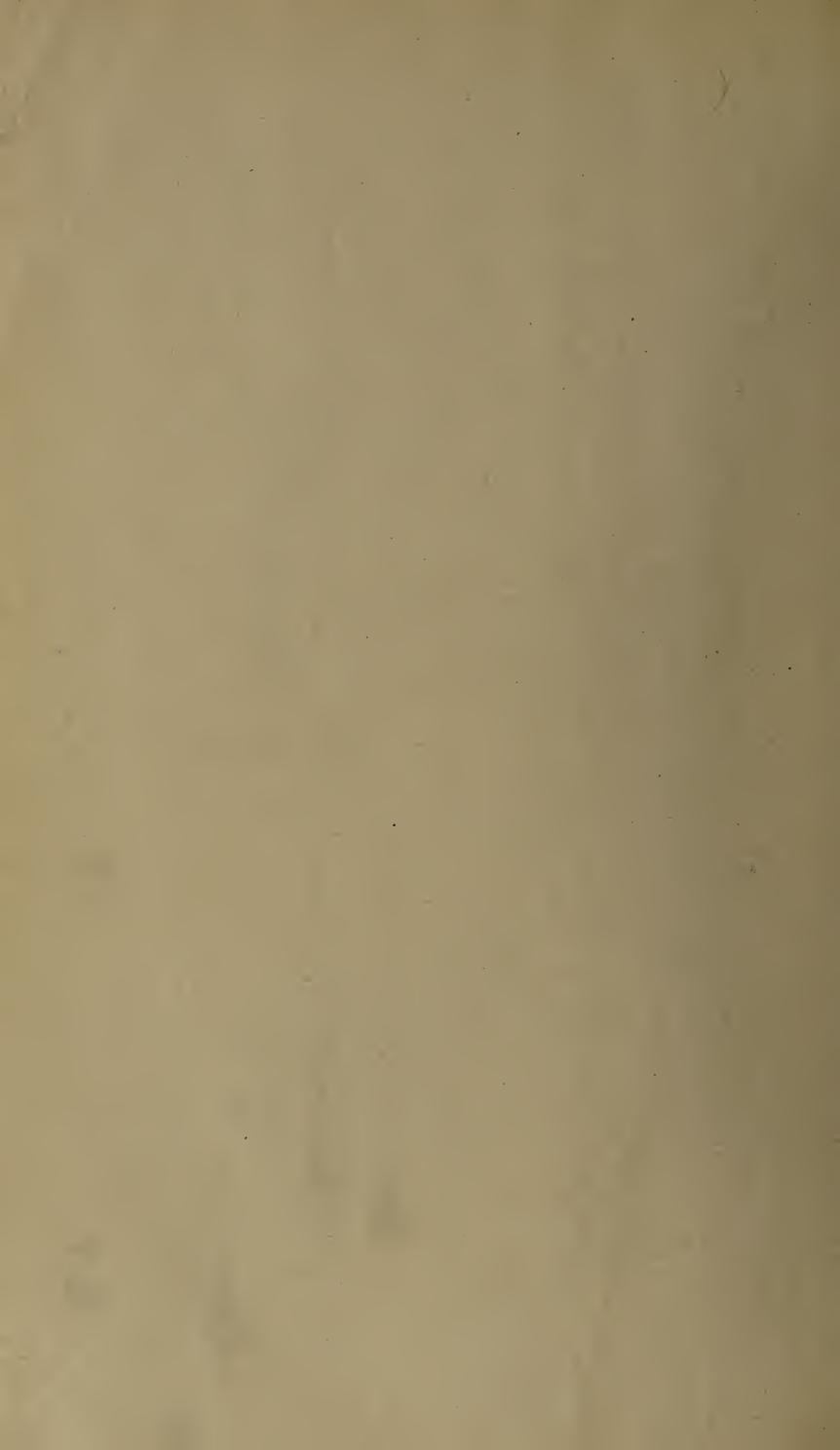
for the Year 1951



Government Press, Cairo 1955

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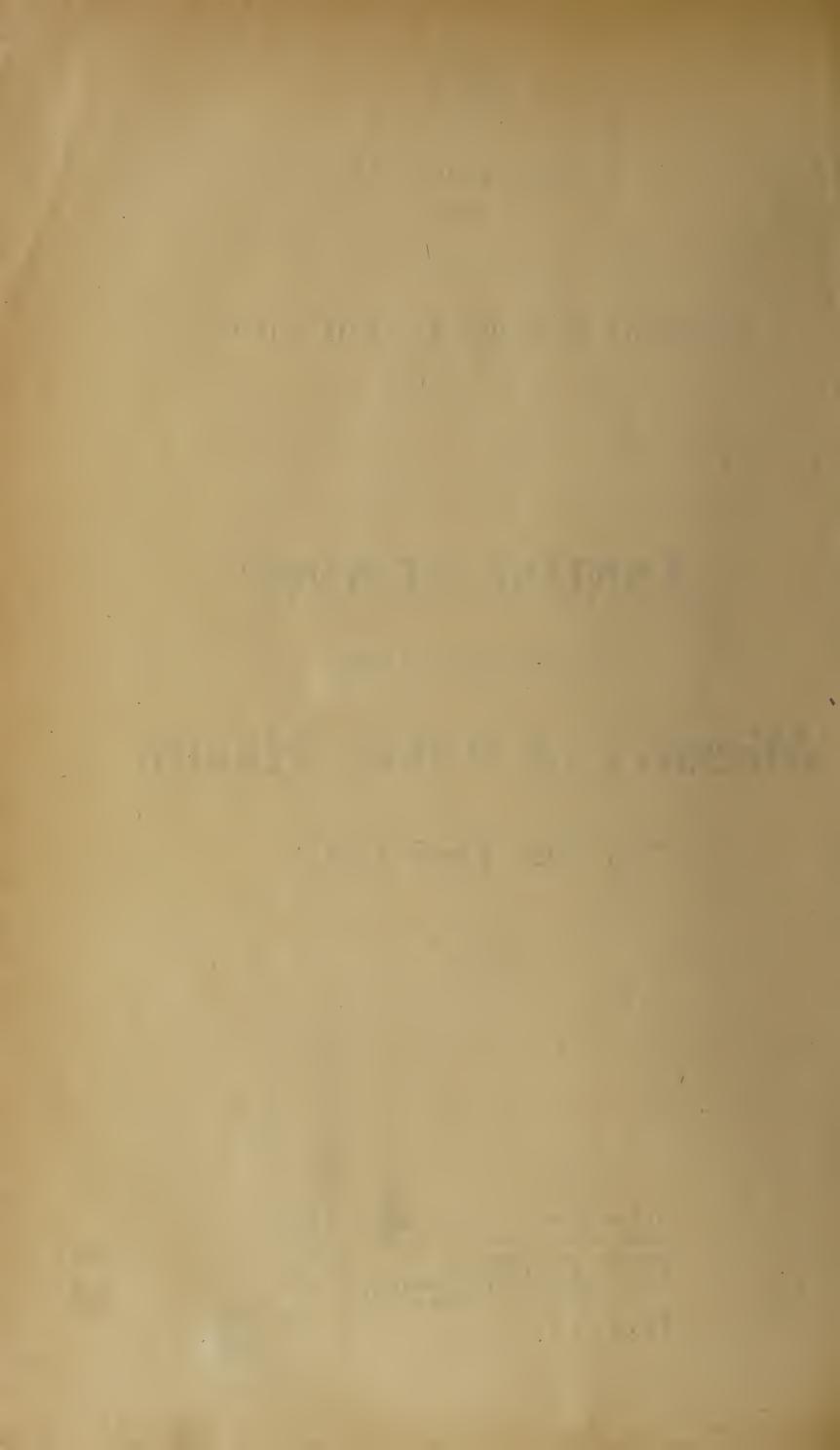
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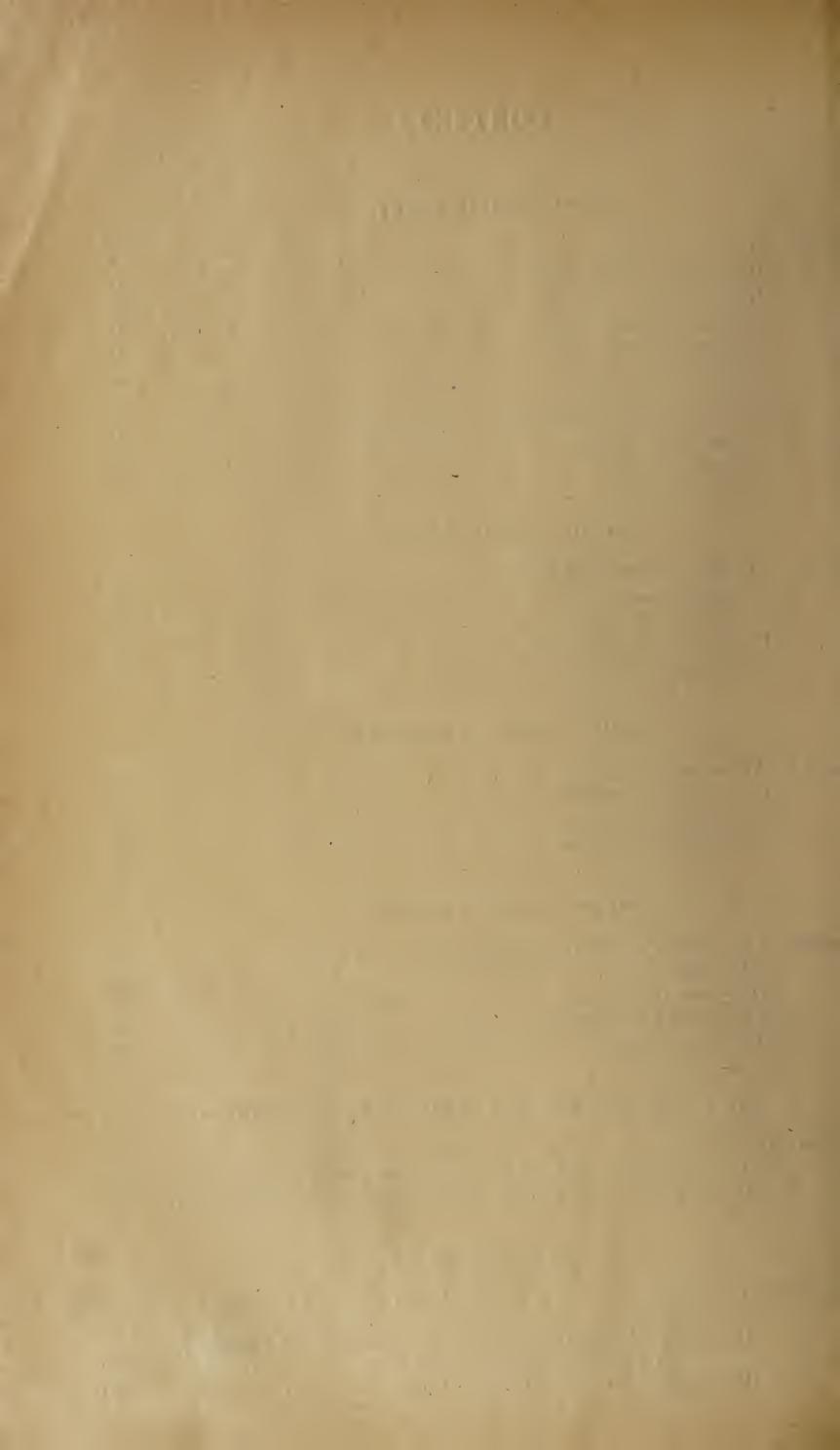
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MINISTRY OF PUBLIC HEALTH

ANNUAL REPORT FOR THE YEAR 1951

Part I.-PUBLIC HEALTH

Chapter I.—Vital Statistics

A.—Population:

The estimated population of Egypt in mid-year 1951 was 20,871,300 *i.e.* an increase of 478,700 inhabitants or 2.3% over 1950. The following table gives the average annual rate of increase of the population since 1907:

Year	3		Average annual rate of increase per cent
1907–1916		• • •	1.239
1917–1926	• • •	• • •	1.101
1927-1936	• • •	• • •	1.126
1937–1946	• • •	• • •	1.849
1947-1948	• • •	• • •	2.227
1948–1949	• • •	• • •	2.018
1949–1950	* * *	•••	2.226
1950–1951	• • •	• • •	2.347

The progressive rise in the annual rate of increase indicates that the population of Egypt as a whole is rapidly increasing, a fact that calls for careful studies to escape such serious consequences as may ensue. Among these consequences may be cited the failure of the cultivated areas to produce enough food for the population and failure of present revenues to meet the government's financial obligations towards public services.

Table No. 1 gives the age and sex distribution of the population and the ratio per thousand of each age group to total population. It shows that the ratios for age-groups up to 30 years are high which indicates that the Egyptian population is young. The ratios after 30 years age groups are low, and the average age is 36 for males and 42 for females.

B.—Births (Table No. 2).

The number of births recorded throughout Egypt during the year was 933,959 or 44.7 per thousand of the population, as against 44.4 in 1950. Table No. 2 shows that the birth rate is steadily rising in Egypt. It is indeed very high as compared with other nations. It may be safely said that it is one of the highest in the world. During the past 10 years, the birth-rate varied between 38.2 in 1942 and 44.7 in 1951. The highest birth-rate in 1951 was recorded in the governorates, being 52 per thousand. The lowest was in Upper Egypt Provinces being 38.9.

In Lower Egypt provinces, the ratio was 46.7. The lower birth-rate in Upper Egypt may be explained by the migration of able men to other parts of the country particularly to the Governorates in search of a living (Table No. 8). Table No. 4 shows that the highest birth ate of a living (Table No. 8). Table No. 4 shows that the highest birth ate of a living (Table No. 8). Table No. 4 shows that the highest birth ate of a living (Table No. 8). Table No. 4 shows that the highest birth ate of a living (Table No. 8). Table No. 4 shows that the highest birth ate of a living (Table No. 8). Table No. 4 shows that the highest birth ate of a living (Table No. 8). Table No. 4 shows that the highest birth ate of a living (Table No. 8). Table No. 4 shows that the highest birth ate of a living (Table No. 8). Table No. 4 shows that the highest birth ate of a living (Table No. 8). Table No. 4 shows that the highest birth ate of a living (Table No. 8). Table No. 4 shows that the highest birth ate of a living (Table No. 8). Table No. 4 shows that the highest birth ate of a living (Table No. 8). Table No. 4 shows that the highest birth ate of a living (Table No. 8). Table No. 4 shows that the highest birth ate of a living (Table No. 8).

C.—Deaths:

A total of 402 158 deaths were recorded throughout Egypt this year or a death rate of 19.3 per thou and population. This is almost the same death rate as last year, i.e. 19.1 Perus I of table No. 2 shows that the death rates have been on the decline since 1947. The nighest death rate for 1951 was recorded in the governorates, i.e. 21.8. The lowest, 18.1, was recorded in Upper Egypt provinces. A death rate of 19.2 was recorded in Lower Egypt provinces. The low death rate recorded in Upper Egypt provinces is attributed to inaccurate reporting of deaths. The high death rate in the governorates, particularly in Suez, is explained by the migration of able men from Upper Egypt so that the real population is in effect more than the estimated population which is the basis of calculation.

Table No. 3 shows that the Lighest death rates were recorded during the 2nd and 3rd quarters, namely, 21.6 and 21.1 per thousand. The lowest was recorded during the 4th quarter, 16.4 per thousand.

D.—Age and Sex Distribution of Deaths:

Table No. 9 gives the number and rates of deaths distributed according to age and sex. It shows that about 60% of the deaths occur during the first five years of age. This excessively high death rate is best conceived in comparison with rates of other advanced countries. It is 8% in England and Wales. This calls for more medical care of pregnants and children up to 5 years old, if any improvement in the general death rate is to be realized.

The same table shows that the death rate is higher among males than females, namely 20.7 per thousand for the former and 17.9 for the latter. This increase is common in all age groups, except the over 85 age group.

E.—Infantile Deaths:

The total number of infantile deaths recorded in all Egypt was 120,154 or 129 deaths per thousand births as compared with 130 in the previous year. Infantile deaths recorded in localities having health offices totalled 70,742 or 166.4 per 1000 births as against 170.9 in 1950 (Table No. 11). This table also shows that diarrhoea and enteritis still account for the majority of infantile deaths. Concenital debility comes next in importance. Table No. 11 gives infantile deaths in localitis having health offices distributed according to age and cause of death. It hows that 22% or one fifth of infantile deaths occur during the first month of life and that 73% of these are due to congenital debility. After the second month of life diar loca and enteritis figure foremost among causes of infantile deaths. It is observed that the cone all practice is for medical officers of health to diagnose the cause of all infantile deaths as congenital debility if the infant is a new born and as diarrhoea and enteritis if the infant is more than two or three months old. It is suggested that every possible means be adopted for more accurate diagnosis of infantile deaths.

Table No. 7 shows that the highest infantile death rate of 169 per 1000 births was recorded in the governorate, and the lowest, 109, was recorded in Lower Egypt provinces. In Upper Egypt provinces the rate was 129. Again the high infantile death rate in the governorates is attributed to accurate reporting. The infantile death rate for all Egypt is on the whole very high and calls for more attention, since the state of public health in any country is reflected by its infantile death rate.

TABLE No. 1.—ESTIMATED POPULATION BY AGE AND SEX IN 1951

		A	ge G	roup	3				Males	Females	TOTAB	Proportion Per 1000 of Total
										. 3		
0- 1 Yes	a r .	••	•••	•••	•••	•••	•••	•••	283,800	274,900	558,700	26.8
1- 5 Yes	ars .	••	•••	•••	•••	•••	***	•••	1,124,300	1,161,400	2,285,700	109.5
6-9,	, •	••	•••	•••	•••	•••	* * *	•••	1,330,200	1,310,800	2,641,000	126.5
10–14	, •	• •	•••	•••	•••	•••	•••	•••	1,257,100	1,178,700	2,435,800	116.7
15–19	, •	••	•••	•••	•••	•••	•••	•••	1,082,700	1,009,500	2,092,200	100.2
20–24 "	, ••	•	•••	•••	•••	•••	•••	•••	745,800	777,000	1,522,800	72.9
25–29 ,,		•	•••	•••	•••	•••	•••	•••	754,600	865,500	1,620,100	77.6
30–34 ,,	, ••	•	•••	•••	•••	•••	•••	•••	682,300	758,800	1,441,100	69.0
35-39 "	. ••	•	•••	•••	•••	•••	•••	•••	725,500	719,300	1,444,800	69.2
40–44 ,,		•	400	•••		***	•••	•••	626,300	623,200	1,249,500	59.9
45-49 ,,		•	•••	•••	•••	•••	•••	•••	471,500	456,900	928,400	44.5
50–54 ,,			•••	•••	•••	•••	•••	•••	463,500	493,600	957,100	45.9
55-59 ,,		•	•••	•••	•••	•••	• • •	•••	188,300	190,400	378,700	18.1
60-64 ,,		•	•••	•••	•••	•••	•••	•••	277,300	328,800	606,100	29.0
65–69 ,,		•	• • •	•••	•••	•••	•••	•••	92,300	90,400	182,700	13.5
70–74 "		•	• • •	•••	•••	•••	•••	•••	118,600	150,500	269,100	12.9
75 70			•••	•••	•••	•••	•••	•••	25,800	26,400	52,200	2.5
80-84 ,,			•••	•••	***	•••	•••	•••	38,300	57,900	96,200	4.6
85 ea			•••		•••	•••	•••	•••	5,300	6,200	11,500	0.6
% O. 0.4									9,700	14,600	24,300	1.2
00.00					005	***	***	0.00	1,600	1,800	3,400	0.2
90-99 ,, 100 Years		076	er						2,400	3,300	5,700	0.3
Not stated	WILL.								27,600	36,600	64,200	3.1
	•		•••	•••								
					To	TAL	•••	•••	10,334,800	10,536,500	20,871,300	

Table No. 2.—Births, Deaths and Rates per 1,000 Population and Infantile Mortality Rates 1939-1951

Anger		¥	ears		,		Live Births	Deaths	Natural Increase	Birth-Rate Per 1,000 Pop.	Death-Rate Per 1,000 Pop.	Infantile Mortality Rate Per 1,000 Live Births
				•								
1939	•••	•••	• • •	•••	•••	•••	696,746	429,033	267,713	42.2	26.0	161
1940	•••	•••	•••	•••	• • •	•••	697,700	444,448	253,252	41.6	26.5	162
1941	• • •	• • •	•••	•••	•••	•••	695,016	440,981	254,035	40.8	25 · 9	150
1942	• • •	• • •	•••	•••	•••	•••	658,324	494,358	163,966	38.2	28.7	168
1943	•••	•••	•••	• • •	• • •	•••	689,771	492,644	197,127	39.6	28.3	160
1944	•••	•••	•••	•••	• • •	• • •	722,166	472,234	249,932	41.0	26.8	152
1945	•••	•••	•••	•••	•••	•••	787,502	512,003	275,499	43.9	28.6	153
1946	•••	•••	•••	•••	•••	•••	774,152	469,382	304,770	42.6	25.8	141
1947	•••	•••	•••	•••	•••	•••	834,557	408,577	425,980	43.5	21.3	127
1948	•••	•••	•••	•••	•••	•••	832,728	397,976	434,752	42.5	20.3	139
1949	•••	•••	•••	•••	•••	•••	836,516	410,524	425,992	41.9	20.6	135
1950	•••	•••	•••	•••	•••	•••	904,941	388,944	515,997	44 · 4	19.1	130
1951	. • • •	•••		•••	•••	•••	933,959	402,158	531,801	44.7	19:3	129

TABLE No. 3.—DEATHS AND DEATH-BATES REGISIERED QUARTERLY IN EGYPT

	**					Quarte	r Ended			Quarte	r Ended	
	Y (DATE		0	March	June	September	December	March	June	September	December
						Male l	Deaths			Female	Deaths	
1942	•••	•••		•••	57 ,024	78,544	70,071	62,740	47,208	68,590	51,874	50,307
1943		•••	• • •	•••	58,690	69,137	71,461	70,096	47,015	58,712	61,239	56,294
1944			•••	•••	61,059	69,029	70,457	57,025	4 8.7 3 3	59,308	60,175	46,448
1945	• • •	•••	•••	,	55,687	69,307	85,914	66,032	44,935	60,612	75,509	54,007
1946		* * *	•••	•••	71,014	72,047	64,521	53,089	51,415	61,661	55,845	44,790
1947		•••	•••	• • •	43,030	49,577	60,302	67,938	35,468	42,657	52,105	57,500
1948		• • •	• • •	• • •	42,411	56,638	66,696	50,473	36,494	47,616	60,151	41,497
1949	•••	•••	•••	• • •	48,324	62,098	63,321	44,358	41,159	56,776	56,896	37,592
1950	•••	<i>:</i>	•••	•••	4 4,189	51,675	61,568	49,732	37,474	4 5,95 8	55,705	42,643
1951	•••	•••	٠	•••	49,281	59,287	58,607	46,802	43,536	53,298	52,072	39,275
						Total o	f Deaths		Annual De	ath rate per	1,000 Perso	ns Living
1942	•••	•••	•••	• , .	104,232	147,134	129,945	113,047	24.5	34.3	29 · 9	26 0
1943	• • •	•••		•••	105,705	127,849	132,700	126,390	24.6	29 · 4	30.2	28.8
1944	•••	••	• • •	•••	109,793	128,337	130,632	103,473	25.0	29 · 2	29.4	2 3 · 3
1945	•••	••	•••	•••	100,622	129,919	161,423	120,039	22.8	29·1	35.7	26.6
1946	•••	•••	•••	•••	117,429	133,708	120,366	97,879	26.3	31.3 ,	26.3	21.4
1947	•••	•••	•••	•••	78,498	92,234	112,407	125,438	16.6	19.3	23.3	2 6·0
1948	•••	•••	•••	•••	78,905	100,254	126,847	91,970	16.2	20.6	25.6	18.6
1949	•••	•••	•••	•••	89,483	118,874	120,217	81,950	18.2	23.9	23.9	16.3
1950	•••	•••	•••	•••	81,663	97,633	117,273	92,375	16.3	19.2	22.8	18.0
1951	•••	•••	• • 0	•••	92,817	112,585	110,679	86,077	18.0	21.6	21.1	16.4

TABLE NO. 4. -- MONTHLY BIRTHS, DEATHS AND RAIES BY SEX, EGYPT 1951.

			7.6	11.							Births		Birth Rate		Deaths		Death Rate
			Months	squa						Males	Females	TOTAL	Per 1000 Pop.	Males	Females	TOTAL	Per 1000 Pop.
Januoty	•	•	•	•	•		:	:		45,156	39,565	84,721	47.8	18,521	16,198	34,719	19.6
February	•	•	•	•	•	*	:	:	•	40,276	36,490	392,32	48.0	14,863	13,143	28,006	17.5
March	3		•	:	•	0 0	•	:	•	43,289	39,888	83,12%	47.0	15,897	14,195	30,688	17.0
April	•		•	•	*	•	•	:	•	36,270	33,504	69,774	40.7	17,758	15,933	32,691	19.6
May	•	•	•	•	•	•	• •	:	0	35,789	32,559	68,348	38.6	21,258	18,922	40,180	22.7
June	•	:	•	•	:	*	•	•	0	35,869	32,074	67,943	39.6	20,271	18,443	38,714	52.6
July	:	•	•	•	•	*	•	•	•	39,363	35,615	74,978	42.4	22,151	19,433	41,58	23.5
August	•	:	•	•	•	*	•	•	•	89,634	36,193	10 10 10 10 10 10 10 10 10 10 10 10 10 1	42.8	19,907	17,793		21.3
September		•	•	•	:	:	• .		•	38,889	35,231	74,120	43.2	16,549	14,846	31,395	18.3
October	•	•	•	•	•	*	•	•	0	42,662	39,424	82,086	46.4	16,330	13,656	29,986	16.9
November		Ŧ:	• •	•	•	:	•	:	•	43,570	40,594	84,164	49.1	15,011	12,627	27,638	16.1
December		:	•	•	:	:			:	46,457	45,598	98, 655	52.0	15,461	12,992	28,453	16.1
						Total		•	:	487,224	446,735	933, 959	44.7	213,977	188,181	402,158	19.3

TABLE No. 5.—MONTHLY DEATH RATE PER 1,000 OF POPULATION 1942—1951

	Month			1942	1913	1911	1.4"	1946	1947	1948	1949	1950	1951
1									gi.			-	
January	•••	•••		24.6	26.0	28.0	23.6	25.8	19.0	15.9	18.9	16.9	19.6
February	• • • • •		•••	24 · 1	21.7	23 2	20.9	24.5	15 9	16.4	18.5	16.8	17.5
March	*** ***	··· ·	•••	23.8	25.1	24 · 3	22.8	27.3	14.8	16.2	17.3	15.1	17.0
April	•••	• • •	• • •	27.8	26.0	25.3	21.9	27 · 1	16.3	15 · 4	18.4	17.0	19.6
May	•••	•••	• • •	34.2	30.3	29 · 2	29·1	30.3	18.8	20.0	24.4	19.2	22.7
June	•••	•••	• • •	39.5	31.8	32.8	36 · 1	30.9	22.9	26.2	28.9	21 · 4	22.6
July				33.9	33.8	33 · 7	39.1	29.0	25.5	27.4	27.2	22.8	23.5
August	•••	•••		28.1	31.1	29.9	37.3	26.5	23.3	27.0	24.7	23.8	21.3
September	r	•••		24.8	26.3	25-2	31.5	24.1	21.0	22.7	19.7	19.8	18.3
October	•••	• • •		25 · 1	29.5	24.3	27.7	22.6	38.2	19.2	16.7	18.7	16.9
November	· · · · · · · · · · · · · · · · · · ·	• • •		25.4	27.5	23.3	25.0	20.1	22.9	18.2	15.7	17.5	16.1
December	•••	• • •	• • •	25.6	30.0	22.8	27.7	22 0	16.7	18.6	16.5	17.7	16.1
	TOTAL	•••	• • •	28.7	28.3	26.8	28.6	25.8	21.3	20.3	20.6	19 · 1	19·3

Table No. 6.—Births, Deaths and Infant Mortality by Governorates and Provinces 1942-1951

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	ņ			0	4.564		,	, 0			(55,092)	96,485	52,051	32,324	53,844	12,461	53,322	22,069	27,582	44,217	38,838	42,202	36,501		787 569	
	In. M.	/	(18,420	91	1,456	`	1,447					8,513					-					2,551			ĵ.
1944	ė	minute address to the		53,583	2,632	4,075	971	4,439	2,796	26,396	35,227	54,444	38,515	19,785	32,430	9,243	32,957	13,112	19,787	23,556	22,766	26,636	26,395		472 234	•
	, m		1	85, 786 80, 786	4,250	7,852	2,365	5,119	5,283	44,383	60,961	91,008	49,801	29,331	50,957	5,696	48,916	22,405	26,227	42,667	35,793	39,394	24,399		799 TEE	
-	In. M.			18,023 8,023	678	1,132	276	1,251	738	4,507	8,249	11,703	8,375	4,813	6,288	1,386	7,098	3,070	4,926	4,690	5,882	6,269	2,914		110 520	
1943	. G			97	2,411	, .	977						37,976									9	24,377		492,644	
	å	• 0			3,605									- 6	-	0	0	0	0	9	•	-	•		689,771	
	In. M.		c	5 1.49		952	322	1000 2000	631	4,898	9,357	12,139	ලිදු ලේ ලේ	4,902	6,536	1,558	8,164	3,070	5,097	5,255	6,327	6,207	3,357		110,847	
6761	D.			W.	2,085			2,982	T-10	4	9	63,456	67	21,929	0	9	0	0	•	~		•	~		494,358	
	ë		2K 991	25, 202	2,412	5,173	1,853	3,544	3,823	40,592	54,703	83, 155	48,555	100,12	48,171	0,915	49,279	21, 282	25,955	42,963	32,277	36,697	30,459		658,324	
				a (*	•		9 0		:	•	•			•		:	:	0		•	•		•	
						•	•	•	•	•	:	•	:	*	•		•	•	•	:		•	•		:	
3						•	•	•	•	•	•	•	0 0	•	• .	•	•	•	•	:	•	:			TOTAL	
Localities						•			1cts			•	*	:	:	•	•	•		:	•	:	:			
				:		•	•	: ·	Districts		•	•	:	•	:	•	•		•	:	:	•	*			
			Cairo	Alexandria	Ismailia	Port Said	Damietta			Behera	Вакарна	Gharbia	Me noutha	Namuola Gi	Oharkia	Aswan	Assint	Beni-Suer	Fayoum	Gerga	Giza	Minna	Cena			

TABLE NO. 6.—BIRTHS, DEATHS AND INFANT MORTALITY BY GOVERNORATES AND PROVINCES (contd.)

		1947			1948			1949			1950			1951	
Localities	, ä	D.	In. M.	å	å.	In. M.	ä	D.	In. M.	Å.	D,	In. M.	B.	D.	In. M.
C	0	* * * * * * * * * * * * * * * * * * * *	0,00	2	ŗ	(9		C r	1		r I	7	C
Alexandria	46,231	22,380	8,860	48.374	20,436	19,940	104,047	22,849	19,089	113,028	49,154	20,404	117,120	51,089 22,356	20,312
	5,11	22,	•	5,701	50,	h	CA	3,06	,08	်တ်		~ "	, O.	W W	2
Said	8,55	 		8,070	,51	1,116	03	41	,19		,	, ,	ल्र	, A.	्यू
Suez	10 c	0, L	1,023	2,803	000		ر ص	30,	50		0		00	oř.	್ಷಾ
Dietriote	7,0	1,1	7000	6, 183 6, 200	CO.	1,150	21 1	Los To	C -		J. H	1.047	, o	ມັເ	4,
4	49.79	25.8		50,776	1,70		2 1	4, 7 1, 93 1, 93	200		200		$\tilde{\omega} \subset$	$\sigma \subset \sigma$	5,119
•	67,00	38,	2,858	69,363	,98	9,421		$\frac{5}{6}$	· CV		υ . [•) 	0,7	, 4
	102,18	57,7		107,125	6,70	, m	64	8,95	,28		, ~ ~	, .	$^{\prime}$ 0	0,0	, rO
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			1			1	1	,	1		A	~	9	4,9	$\vec{\omega}$
Menoutia		32,72	92	0,0	1,60	ल्रं	4,98	4,44	,02		64	9	0	8,0	L.
Kallubla Sherling		17,47	00 g	دا ه	9,46	∞	3,70 1,00	82,0	,111)	•	1	ထွ . က် ၊	مع د
	11 343	55 7 7	0,0,0	17 024	28,320	3,016	18,417	28,215	6,657		24 O	6,129	سر د	~ a	ر م
Assiut		25,42	, 12 1 13	- ເບ ລັກຕຳ	6.34	ž 0.	2,08	0,00	46		ر کر	•	ž 03	2 Q:	ຸ .
	. 26,0	11,46	,60	4,7	,32	, c	4,21	2,31	,01		, 0,		ຸກປ	1,7	ંસ્ટ
u	. 31,6	14,97	38	7,5	6,42	A.	4,25	8,91	,00		. ~	• •	್ತ್ರ	6,4	P
Crefga	46,6	16,97	ರ್ಜ್ ರ	ധ	8,00	34	0,71	933	22		3	~	ಲ್ತ	2,1	oř.
GIZA	43,	19,79	,94	1,1	1,18	4	88,8	1,25	,76		64	~	5	2,6	ಹ
minia	<u>ر</u>	18,92	, 33	4	0,89	9	4,28	1,74	,76		7	•	टर्	8,0	9,
Wells	. 35,7	12,83	,78	4,0	3,43	T	3,04	3,52	,71		6.2	~	TO	ය ස	70
1															
TOTAL	834,557	7 408,577	105,821	833, 438	397,976	115,422	836,516	410,524	112,641	904,941	388,944	1000 1000 1000 1000 1000 1000 1000 100	933,959	402,158	120,154

TABLE No. 7.—BIRTH-BATES, DEATH-RATES AND INFANTILE

		1942		Ľ	943			1944			1945			1946	
Localities	Birth	D43	Inf.		Dooth	Inf.		Dooth	Inf.	Birth	Death	Inf.	Birth	Death	Inf
			Mort.			Mort.			Mort.			Mort.	2711 011	70411	Mor
GOVTES.	,			.14											
Cairo	46.3	36.9	247	53 1	37.7	237	58.9	36.8	215	60.5	33-8	207	61.9	34.3	20
Alexandria	34.4	25 · 2	204	44.4	32.7	250	52.7	29.7	217	55.5	34.7	242	66-6	25.9	18
Ismailia	44.7	38.5	214	61.4	41.1	188	70.9	43.9	184	73.7	37 · 9	168	71.2	35.0	16
Port-Said	38.3	26.5	183	44.9	24.6	182	53.8	28.9	192	53.4	27.5	187	51.1	22.7	15
Damietta	41.1	28.8	174	40.1	21.4	151	50.8	20.9	147	5 4·3	26•4	184	52-1	20.2	13
Suez	66.1	58.1	288	84.9	73.5	263	90.6	78.7	243	97.6	63.4	244	92.4	54.2	21
TOTAL	_	_	_=	_	-	-		_	_	_	Order Miles	-	_	-	-
77															
FRONTIER DIST	32-2	23.3	165	35.3	23.2	174	43.2	22.8	135	48.0	22:1	130	50.0	23.9	18
T. T.						•									
L. Egypt	20.5	05.0	707	95.0	00.7	7.00	97.0	99. 5	705	40.0	04.0	705	40.0	07.0	
Behera	30.7		121						107						
Dakahlia	41.3	34.5	171	41.8	31.9	148		26.0	142	47.1	31.3	159	45.5	26.5	1.
Foundia		20.0	7.40	- 20.7		7.977	AT . G		700	10 1	-	705	40.5	05.7	7
Gharbia	39.1														
Menoufia															
Kaliubia	10.7														
Sharkia	. 40.1	27.3	136	40.9	25.8	126	41.2	26.2	111	42.8	28.1	1 125	42.0	25	1
TOTAL							Chromital Apple	(City manufil)	(annulrased)				-		
U. Egypt															
Aswan	30.8	34.1	157	20.3	47.1	215	18.6	30.1	1 143	40.0	19:	5 102	33.7	16:	5 1
Assiut	37 • 7	7 28.1	166	36.2	25.6	148	36.6	24.7	7 139	39.4	30 -	9 140	38.3	26:	2 1
Beni Suef	34.9	9 23.2	144	35.9	22.7	138	35.8	20 .	9 125	34.8	3 27.	5 142	37.7	41.	4 1
Fayoum	40.8	5 28.7	7 196	40.1	27.9	189	40.0	30 ·	1 19:	1 41.	5 29	3 187	7 38.8	28	3 1
Gerga	34.8	8 23.0	122	33.1	22.3	3 114	33.7	7 18	6 9	34.	3 19.	1 89	32.1	19.	9
Giza	42.	6 33.5	5 196	44.5	31.6	3 172	46.1	29 :	2 16	8 48.	9 31.	3 163	3 45.2	33.	7]
Minia	36	6 25.4	4 169	37.6	25.6	6 165	38:	3 25.	9 15	7 40.0	6 34.	6 170	35.5	2 25.	9
Qena	27	6 16.	9 110	27.5	21 · 9	9 9!	5 22.	0 23	8 10	5 32	5 14.	8 7	7 29.	7 15.	8
TOTAL .	–	-	_				planta de la constanta de la c						_	_	
GRAND TOTA	38·	2 28.	7 167	39.0	8 28 :	3 16	0 41	0 26	8 15	2 43	9 28	6 15	3 42	6 25.	8
		1	1	,	1	1 =	1	1	1_	Jan		4		1	

TTY RATES BY GOVERNORATES AND PROVINCES 1942-1951.

1947			1948			1949			1950			1951	
Death	Inf. Mort.	Birth	Death	Inf. Mort.	Birth	Death	Inf. Mort.	Birth	Death	Inf. Mort.	Birth	Death	Inf. Mort.
21.0	172	46.8	24.7	199	47.8	23.1	184	50.5	22.0	181	51 · 0	22-3	173
24.1	192	50.7	21 · 4	175	50.2	23 · 3	184	52 · 9	21.7	174	53.8	21.6	168
3 8·0	151	50.9		160	63.5	26.7	149	59.5	21.4	131	55.5	20.3	144
17.7	129	43.1	19.1	138	47.4	18.1	133	45.0	19.4	159	46.2	17.3	132
20.5	131	50.3			47.3	18.4	137	50.2	17.3	134	47.1	17.0	121
24.2	178	55.1	27 · 2	187	56.4	27.3	178	64.4	26.0	177	62.8	27.0	184
-			_	-				51.6	23.5	175	52.0	21.8	169
15.9	119	39.3	15'8	136	42.3	15.4	122	42.6	14.4	123	44.2	18.9	141
20.8	111	39.7	16.6	98	38.3	16.8	98.	40.9		90	43.1	15.2	87
27.1	123	47.7	22.0	136	46.2	22.6	131	48.4	19.5	115	49.1	19.6	110
			_		<u>·</u>			41.9	13.5	77	39.8	13.2	76
24.7	108	44.6	19.5	122	44.1	19.9	113	49.5	19.6	110	50.0	20.0	109
28.0	142	46.7	26.4	164	45.1	28.3	164	48.3	23.5	138	48.0	17.6	144
25.4	133	48.9	27.3	166	46.5	25.1	151	50.3	22.7	136	49.8	24.0	140
23.6	115	41.9	21.0	124	40.4	20.6	120	44.1	17.7	101	44.9	17.6	96
_	- 1	_					_	46.3	18.9	111	46.7	19.2	109
		,											
18.1	111	36.1	16.9	116	52.1	16.6	78	38.7	18.9	122	38.8	18.6	133
18.4	118	38.0	18.7	113	37.0	19.7	122	38.6	19.2	125	38.9	. 19.8	
18.6	100	39.4	18:0	111	37.7	19.2	124	40.3	16.7	110			
22.2	139	40.6	23.8	152	41.3	24.3	160	45.0	23.4	161	45.3	22.6	
13.1	73	32.7	13.6	79	30.2	14.4	77	33.5	15.1	101	32.7	16.0	
24.1	136	46:8	24.1	157	43.4	23.7	148	49.1	23 · 2	153	48.9	24.3	
17.8	113	41.4	19.4	128	40.3	19.8	130	41.6	20.2	133	41.7	18.2	
11.5	78	30.1	11.9	91	28.7	11.8	82	29.0	11.4	98	29.0	11.4	104
_	-			-				38.7	18-1	126	38.9	18.1	129
21.3	127	42:5	20.3	139	41.9	20.6	135	44.4	19 · 1	130	44.7	19.3	129
J	1	1			1	1	1		1	1			L

TABLE No. 8.—BIRTHS, DEATHS, AND INFANT MORTALITY AND RATES
BY GOVERNORATES AND PROVINCES, EGYPT 1951.

Localities	Births	Birth Rate Per 1000 Pop.	Deaths	Death Rate Per 1000 Pop.	Infantile Martalita	Inf. Mortality Rate per 1000 Births
GOVERNORATES:						
Cairo	117,120	51.0	51,089	$22\cdot 3$	20,312	173
Alexandria	55,708		22,356	21.6	9,378	168
Ismailia	8,069	55.5	2,952	20.3	1,164	144
Port Said	9,251	46 2	3,463	17.3	1,220	132
Damietta	2,879	47.1	1,037	17.0	349	121
Suez	7,693	62.8	3,306	27 · 0	1,415	184
TOTAL	200,720	52.0	84,203	21.8	33,838	169
Frontier Districts	7,968	44.2	3,399	18.9	1,120	141
Lower Egypt:						,
Behera	59,069		20,829		5,119	
Dakahlia	77,167		30,764		8,451	
Fouadia			10,985		2,508	
Gharbia	87,656		34,981		9,519	
Menoufia			30,898		6,747	
Kaliubia	38,169		18,619		6,339	
Sharkia	63,135	44.9	24,797		6,087	
Total	419,218	46.7	171,873	19.2	45,770	133
UPPER EGYPT:						
	12,21	38.8	5,823	18.5	1,620	133
Assiut	57 059	38.9	29,426	19.8	7,647	132
Assiut	27,548	41.1	11,737	17.5	3,335	121
77	32,944	45.3	16,424	22.6	5,117	155
rayoum	45,330	32.7	22,143	16.0	4,925	109
Giza	45,77	48.9	22,691	24.3	. 7,537	- 165
Nerth 1	49,73	7 41.7	20,897	18.2	5,655	114
Qena	. 34,55	29.0	13,560	11.4	3,590	104
TOTAL	. 306,05	38.9	142,683	18.1	39,420	129
GRAND TOTAL	. 933,95	9 44.7	402,158	19.3	120,154	129
		1		1	<u></u>	1.

Table No. 9.—Age and Sex Distribution of Deaths and Rates per 1000 Population, 1951.

	Age Gr	oups			Males	Specific rate per 1000	Females	Specific rate per 1000	Total	Specific rate per 1000
								,		
0-1	Year		•••	ŏ • •	63,711	224.5	56,443	205.3	120,154	215.1
1–5	Years	• • •	•••		61,468	54.7	58,484	50.4	119,952	52.5
5–10	, ,,	•••	•••	å o o	5,420	4.1	4,092	3.1	9,512	3.6
10-15	,,		•••	4	3,595	2.9	2,322	2.0	5,917	2.4
15-20	33	•••	•••		3,229	3.0	1,999	2.0	5,228	2.5
20-25	,,	•••	•••	á = =	3,217	4.3	2,012	2.6	5.229	3.4
25 –30	93	•••	•••		3,576	4.7	2,825	3.3	6,401	4.0
30-35	,,	•••	•••	١	3,846	5 6	3,277	4.3	7,123	4.9
35-4 0	,,	• • •	•••	١	4,484	$6\cdot 2$	3,091	4.3	7,575	5.2
40-45	"	• • •	•••	• • •	4,770	7.6	3,287	5• 3	8,057	6.4
45 –50	,,	• • •	•••	• • •	4,169	8.8	2,316	5•1	6,485	7.0
50-55	"	•••	•••	• • •	6,602	14.2	4,112	8•3	10,714	11.2
55– 60	"	•••	•••	• • •	3,328	17.7	1,586	8.3	4,914	13.0
60-65	,,	•••	b • e	• • •	6,805	24.5	4,427	13.5	11,232	18.5
65–7 0	,,	• • •	•••	• • •	4,451	48 2	2,873	31.8	7,324	40.1
70-75	"	• • •			7,765	65.5	6,176	41.0	13,941	51.8
75 –80	,,	• • •	• • •	• • •	3,691	143.1	2,860	108.3	6,551	125.5
8085	,,	•••	***	• • •	6,832	178.4	7,798	134.7	14,630	152 · 1
85 an	d over	•••	•••	• • •	12,249	644 · 7	17,662	681 · 9	29,911	666 • 2
Not a	tated	• 8 3	4 . 4		769	27.9	539	14.7	1,308	20.4
	Ton	[AL	•••	• • •	213,977	20.7	188,181	17.9	402,158	19·3

						Infanti	le deaths	under or	ne year			
Diseases of Infancy			1942	1943	1944	1945	1946	1947	1948	1949	1950	1
	,									4		-
Measles	• • •	• • •	395	99	262	151	360	200	33 8	314	76	
Whooping Cough	•••	•••	28	43	32	28	13	18	11	. 21	22	
Diphtheria	• • •	•••	68	81	59	85	59	57	67	55	39	
Tuberculous diseases	• • •	•••	13	19	24	11	23	14	18	20	20	
Syphilis	•••	•••	150	234	165	130	135	121	147	131	154	
Rickets and Osteomalacia	•••	• • •	189	183	180	176	128	132	221	166	145	
Convulsions	•••	* * *	198	200	252	213	134	98	80	70		
Bronchitis		• • •	3,636	3,522	3,705	4,211	3,742	3,947	5,574	4,768	4758	
Broncho-Pneumonia	• • •		936	1,036	1,095	959	1,145	950	874	1,095	1185	
Pneumonia	• • •	• • •	277	301	347	393	497	538	806	621	780	1
x Diarrho€a and Enteritis	• • •	• • •	31,099	33,230	36,647	37,173	34,086	33,030	32,460	35,083	37,593	3
Congenital Defects	• •		81	78	137	199	150	91	164	64	122	
Congenital Debility	• • •	•••	14,773	16,895	17,881	20,318	18,786	18,191	21,344	20,902	22,779	20
Premature Birth	•••	•••	168	195	151	138	167	123	152	168	236	
Consequences of Delivery	•••	• • •	47	80	74	113	132	138	115	140	207	1
Infanticide		•••	161	126	119	86	100	72	82	60	80	
Accidents	• • •	•••	109	96	122	113	88	109	59	10 0	83	
Other Causes	•••	• • •	1,585	1,841	1,983	1,909	1,475	1,553	1,205	1,137	1,177	1
TOTAL	• • •	• • •	53,913	58,259	60,235	66,396	61,220	59,380	63,516	64,914	69,446	70

Infantile Mortality rates per 100 live births.

	1943	1944	1945	1946	1947	1948	1949	1950	1951
- -									
	0.365	0.877	0.468	1.1	0.566	0.933	0.845	0.2	1.0
15	0.159	0.107	0.087	0.04	0.051	€ 03	0.057	0.1	0.1
79	0.299	0.198	0.264	0.180	0.161	0.185	0.148	0.1	0.1
53	0.070	0.080	0.034	0.070	0.04	0.05	0.054	0.05	0 · 1
16	0.664	• 0.652	0 · 453	0.413	0.343	0.406	0.353	0.4	0 · 4
78	0.675	0.603	0.546	0.391	0.374	0.610	0.444	0.4	0.0
13	0.738	0.844	0.680	0.410	0.277	0.221	0.188		-
	13.0	12.4	13·1	11.4	11.2	16.4	12.8	11.7	13.7
	3.8	3.7	3.0	3.5	2.7	2.4	2.9	2.9	4.3
	1.1	1.2	1.2	1.5	1.5	1.7	1.7	1.9	2.6
	122.7	112.6	115.2	104.2	93.8	89.6	94.4	92.5	88.4
32	•288	•459	617	•458	0.258	• 453	0.172	0.3	0.2
	62.4	59.6	63 · 0	57 · 4	61.5	58.9	56.3	56.1	49.0
90	•720	.505	• 397	.510	·3 4 8	• 420	0.452	0.6	1.1
92	•295	.248	•350	•408	•391	•318	0.377	0.5	1.0
61	•465	· 39 8	· 267	·306	204	·236	0.161	0.2	0.1
47	`.354	•408	· 350	· 269	·309	·163	0.269	0.2	0:2
	6.8	6.6	5.9	4.5	4 · 4	3.3	3 1	0.9	3.6
_ -							-		
	215 · 1	201 · 6	205.8	187 · 1	168-1	175.1	174.7	170 9	166 · 4

TABLE No. 11.—INFANTILE MOBTALITY BY AGE AN

		-								
						Days				
Diseases of Infancy	0-1	1	2	3	4	5	6	7	14	21
			0.1							
									,	
Measles		1	_	-	-		-	1	1	-
Whooping Cough	-	-	-			_		-	-	-
Diphtheria		-	_		_	-	-	-	-	-
Tuberculous diseases		-	-		-	-	-	-	-	-
Syphilis	. 8	12	8	9	6	6	6	16	11	5
Rickets and Osteomalacia		1	-	2	-	-	-	1	-	-
Convulsions		-	-	-	1	_	-	-	-	
Bronchitis		1	7	5	10	9	8	86	66	46
Broncho-Pneumonia		2	1	6	8	3	5	37	24	7
Pneumonia	. 3	13	12	17	8	14	5	37	22	13
Diarrhoea and Enteritis	7	39	41	58	62	53	75	323	346	208
Congenital Defects	12	11	6	9	.9	5	4	9	9	1
Congenital Debility	517	1,160	798	938	711	736	623	2,953	1,857	882
Pemature Birth	59	68	40	33	25	19	14	72	23	14
Consequences of Delivery	114	94	68	32	20	15	10	21	11	5
Infanticide	23	8	_		-	_	-	-	1	
Accidents	4	2	2	2	, 1	_	1	1	ì	-
Other Causes	26	32	36	30	19	25	23	91	59	24
					4					
TOTAL	773	1,444	1,019	1,141	880	885	774	3,648	2,431	1,204

CALITIES HAVING HEALTH OFFICES, 1951

				Month	•					
2	3	4	5	6	7	8	9	10	11	TOTAL
		-	-			7				
5	7	27	20	47	56	83	64	76	48	443
2	2	- 1	1	3	3	7	1	1	4	36
2	2	3	1	4	11	11	4	9	3	51
1	2	3	1	7	5	6	3	5	3	37
6	8	6	9	10	5	10	11	3	1	165
5	11	16	14	23	14	36	23	12	11	175
-	_		-		_	_		_	-	1
432	500	579	52 5	69 0	510	637	499	514	318	5943
117	133	140	143	219	182	226	163	188	125	1829
64	87	86	92	118	115	120	89	92	49	1131
2,852	3,731	4,002	3,765	4,345	3,542	4,145	3,107	2,933	1,888	37,594
3	6		2	-	2		1	1_	-	97
2,187	1,511	935	57 3	477	119	340	213	20 8	99	20,813
21	6	2	2	3	9		1	—	1	453
8	3	2	1	4	3	2	14			443
_	-	-		2		-		_	_	34
9	5	7	6	13	7	14	11	5	4	99
122	92	101	100	141	104	155	95	85	49	1,518
5,836	6,106	\$,900	5,255	6, 106	4,887	5,792	4,299	4,132	2,603	70,742

TABLE No. 12.—Still Births and rates per 1000 live births by sex, 1951

							Still Births			rth-rate Per Live Births	
		LOCALITIE	S			Males	Females	TOTAL	Males	Females	TOTAL
	•										
	Go	VERNORA	TES						5		
Cairo	•••	*** 1**		• • •		1,129	844	1,973	18.3	14.7	16.
Alexandria		• • • • • • • • • • • • • • • • • • • •		• • •	• • •	656	431	1,090	22.6	15.6	19.5
Canal Damietta	• • • • • •		•••	• • •	•••	168	$\begin{array}{c} 127 \\ 32 \end{array}$	295	18.3	15.0	16.
Suez	•••			• • •	• • •	49 90	60	81 150	$32 \cdot 3$ $22 \cdot 6$		27
, , , , , , , , , , , , , , , , , , ,	•••	•••	• •••	=1	•••	30			22 0	10 0	
-			TOTAL	• • •	•••	2,095	1,494	3,589	19.9	15·1	17
	,										-
	_ l ro	NTIER D	ISTRICTS	•••	•••	32	31	63	7.8	7.9	77 - 8
	.										
	Fo	wer Egy	TPT								
Behera	•••			•••		96	60	156	$3 \cdot 2$	2.0	2.
Dakahlia	1	. ,		•••		333	230		8.3		7.
Fouadia				• • •	• • •	101	64	165	5.8		4.
Gharbia	• • • • • •	• •••	• • • • • • • • • • • • • • • • • • • •	•••	• • •	287	197	484	-6.4		5.
Menoufia Kaliubia		• •••	• • • • • • •	•••	• • •	216 145			$6.8 \\ 7.3$		$\frac{6}{6}$.
Sharkia -	•••			•••	• • • •	217	124		6.6		5.
			TOTAL	•••	• • •	1,395	929	2,324	6 · 4	4.2	5
	Ţ	JPPER E	3YPT				•	K			
Aswan						35	. 19	54	$5 \cdot 4$	3 · 3	4.
Assiut	••••			• • •	• • •	137	89		4.4		3.
Beni Suef				•••	• • •	116	75	191	7.8	5 ·8	6.
Fayoum				• • •	• • •	103		183	5.9		5.
Gerga	•••	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • •	• • •	124		205	4.8		4.
Giza Minia	•••	• ••• ••	• • • • • • • • • • • • • • • • • • • •	•••	•••	163	113 84	276 215	6·8 5·1	5·3 3·5	6· 4·
Minia Qena	•••	• ••• ••		•••	•••	131 47	45	92	$2 \cdot 4$		2.
			TOTAL	•••	• • •	856	586	1,412	5.2	4·1	4.7
		(TENEDA	L Total		• • •	4,378	3,040	7,418	8.9	6.8	7.5

Chapter II - Infectious Diseases

A total of 55,674 cases of infectious diseases of Schedule 1 with 14,990 deaths were reported throughout Egypt during the year, or a case rate of 267 and a death rate of 72 per 100,000 of population as against 50,654 cases and 11,749 deaths and a c se rate of 248 and a death rate of 58 per 100,000 of population reported during the previous year.

The two outstanding features of the incidence of infectious diseases this year were:

- (a) A decline of the epidemic wave of cerebro spinal fever which broke out the previous year.
- (b) A marked increase in the incidence of measles. Whereas the case rate was 15 per 100,000 in 1950, it reached 51.5 during this year.

The following is a detailed study of the more important diseases:

Cerebro Spinal Fever:

This disease had spread in an epidemic form during the previous year. According to experience during the previous two epidemics which had broken out during the intervals 1913–1916 and 1931–1934, the number of cases occurring during this year (1951) should have been more than five times their number in 1950, as happened during the first epidemic, or at least twice their number as in the case of the second epidemic. In the Sudan, the cases reported during 1951 were about nine times their number in the previous year. In Egypt, the number of reported cases dropped to less than half their number in 1950. Perhaps it would be interesting to find out the effect of the following two factors on the course of the epidemic:

- (1) Relative humidity.
- (2) Dispensing sulpha compounds for prophylaxis before the fall of the 1951 epidemic season.

1.—Relative humidity:

It was presumed that the relative humidity was converse with the incidence of cerebro spinal fever. Investigation of the relation between humidity and number of cases in Cairo, Alexandria and Minia during the present epidemic did not, however, establish any such relationship. It is assumed that the use of sulpha compounds by the public in addition to the quantities dispensed for prophylaxis m y have something to do with the disappearance of this relationship. One may safely eliminate changes and humidity as factors affecting the decline of cases during the second year of the epidemic.

2.—Dispensing Sulpha Compounds for prophylaxis before the fall of the 1951 epidemic season: (Please refer to last year's report).

It was mentioned in last year's report that sulpha tablets were dispensed during the last quarter of 1950 to contacts of cases occurring during the epidemic season as well as to congregations. It is suggested that this was the principal cause for the fewer cases during 1951 than in the previous year which marked the onset of the epidemic. As evidence, no cases were reported during 1951 among school pupils in Upper Egypt where cases were reported during 1950 and where sulpha compounds were dispensed as prophylaxis.

Measles:

A total of 10,756 cases of measles with 2,915 deaths were reported during the year or a case rate of 51.5 and a death rate of 14 per 100,000 of population, and a case fatality rate of 27% as compared with 3,068 cases with 598 deaths in the previous year or a case rate of 15, and a death rate of 2.9 per 100,000 of population and a case fatality rate of 19.5% The higher incidence this year may be explained by the biennial outbarst of measles which sometimes lasts for two consecutive years.

It is believed that complications of measles account for the greater part of child deaths; so that if notification of measles c uld be made more accurate and the cases detected and treated early, perhaps a material decrease in child deaths w uld be realized.

Plague:

No cases of plague have been reported since 1948.

Small-Pox 1

Two cases without deaths were reported this year in Cairo. Both were residents of Cairo but the source of infection was unknown. Both cases were diagnosed clinically.

Typhus:

92 cases of typhus with 9 deaths were reported during the year or a case-rate of 0.4 and a death-rate of 0.04 per 100,000 of population and a case fatality rate of 9.8% as compared with 105 cases with 16 deaths in the previous year, or a case-rate of 0.5 and a death rate of 0.08 and a case fatality rate of 15%. This shows that the incidence of typhus is on the decline. Tables 14, 15, 16 and 17 give the number of cases and deaths and their ratios per 100,000 of population for 1950 and 1951 distributed occording to governorates and provinces. These show that about 80% of the cases occurred in Cairo governorate and Menoufia, Behera and Beni Suef provinces.

Typhoid and Paratyphoid:

A total of 6,794 cases with 662 deaths were reported during the year, or a case rate of 32.6 and a death-rate of 3.2 per 100,000 of population and a case fatality rate of 9.7% as against 7,886 cases with 836 deaths reported during the previous year and a case rate of 38.7 and a death rate of 4.1 per 100,000 of population and a case fatality rate of 10.6%.



TABLE No. 13.—Cases and Deaths of Infectious Diseases

Diseases	1942	1943	1944	1945	1946	1947	1948	1949	1950
Plague	C 15 D 10 C 22,045 D 4,411 C 00 D 00 C 6,814 D 1,257 C 39 D 2 C 212 D 101 C 3,950 D 1,882 C 9,764 D 3,654 C 6,608 D 3,472 C 6,215 D 5,296 C 870 D 8 C 332 D 6,215 D 5,296 C 870 D 8 C 332 D 208 C 3,553 D 577 C 12,965 D 218 C 0	163 111 40,183 8,252 4,138 384 4,431 790 54 3 114 57 4,143 1,595 4,249 1,022 6,770 3,647 6,935 5,762 1,238 21 375 187 1,872 604 14,056 219 0 16,530	644 393 18,477 4,043 11,194 1,016 5,019 790 30 00 147 75 3,326 1,264 7,274 2,475 6,950 3,803 6,929 5,242 1,057 15 375 158 1,672 537 11,203 204 37,847 1,867 218231	218 108 18,283 3,627 1,355 115 5,286 833 12 1 65 49 3,130 1,159 5,444 1,413 6,819 3,681 5,805 4,848 1,338 12 387 178 1,217 384 1,217 384 14,642 152 5,887 56	211 57 1,458 337 416 50 4,584 637 11 00 88 44 2,047 823 6,968 1,826 6,407 3,671 5,420 4,432 873 11 266 145	15 5 173 53 170 18 4,601 685 10 2 94 32 1,809 591 6,886 1,336 6,523 3,581 5,797 3,948 1,755 7 310 101 1,359 245	00 00 325 74 16 4 55,13 814 9 0 133 37 1,835 659 6,485 2,408 6,614 3,718 5,074 3,561 1,722 1 296 94	00 00 180 53 3 7,110 814 18 1 205 57 1,683 603 11,311 2,603 7,219 3,812 7,458 4,898 1,611 6 291 7,130 208	00 00 105 16 9 00 7,886 836 24 00 2,521 401 1,389 597 3,068 1,389 597 3,068 4,383 2,043 5 5 5 5 1,190 203 7,781 .71 4,251 15
Anthrax	$egin{array}{c c} \mathbf{D} & 0 \\ \mathbf{C} & 21 \\ \mathbf{D} & 4 \\ \mathbf{C} & 2, 257 \\ \end{array}$	0 15 9	14 13 2	19 4 2	4 6 1	3,365 1 9 1 2,189	1 2 0	1,392 1 1 1,385	1,654 0 3 1 989
Parotitis (Mumps)	$egin{array}{c c} D & 142 \\ C & 1,453 \\ ar{D} & 30 \\ C & 9 \\ \hline \end{array}$	105 1,449 31 6	105	92 1,743	54	63 1,880 9 14	27	74 2,628 7 78	55 1,726 0 82
Leprosy	D 2 C 520 D 82 C 452 D 313	393 68 442	58	332 53 439 303	$egin{array}{ccc} & & 2 \\ & 124 \\ & & 55 \\ & & 435 \\ & & 354 \\ \hline \end{array}$	1 162 51 443 309	6 149 61 414	198 69 418 272	233 49 472 347
Acute Poliomye¹itis	$egin{array}{c c} { m D} & { m 313} \\ { m C} & { m 5} \\ { m D} & { m 1} \\ { m C} & { m 3,100} \\ { m D} & { m 312} \\ { m C} & { m 0} \\ \hline \end{array}$	7 2 1,956 209	$ \begin{array}{c c} 11 \\ 4 \\ 1,671 \\ 156 \end{array} $	7 6 1,551	2 6 1,181 88	309 11 14 1,460 91 229	$ \begin{array}{r} 309 \\ 6 \\ 8 \\ 1,413 \\ 75 \\ 6 \end{array} $	13 9	347 8 1 1,503 52
Relapsing Fever }	$\stackrel{\circ}{\mathrm{D}}$		0	880		30	Ö	- 0	Ŏ

ES PER 100,000 POPULATION, 1942—1951.

1942	1943	1944	1945	1946	1947	1948	1949 .	1950	1951
								٠	
0.08	0.09	$3 \cdot 7$	$1 \cdot 2$	$1 \cdot 2$	0.08	0	0	0	0
0.06	0.64	$2 \cdot 2$	$0.\overline{6}$	0.3	0.03	0	C	0	0
28.0	230.6	104.8	102.0	8.5	0.9	1 3	0.9	0.5	0.4
25.6	47 · 4	$22 \cdot 9$	20.2	1.9	0.3	- 0.4	0.3	0.1	0.04
0	23.8	63.5	7.6	2.2	0.9	0 · 1	0.02	0.04	0.01
0	$2 \cdot 2$	5.8	0.6	0.3	0.1	0.02	0.01	0	0
$39 \cdot 6$	$25\cdot 4$	28.5	29.5	25.3	24.0	28.3	35.6	38.7	32.6
$7 \cdot 3$	4.5	4.5	4.5	3.1	3.6	4.1	4.1	4.1	3.2
0.3	$egin{array}{c} 0\cdot 3 \ 0\cdot 02 \end{array}$	$0\cdot 2 \\ 0$	$\begin{array}{c c} 0 \cdot 1 \\ 0 \cdot 01 \end{array}$	$\begin{bmatrix} 0 \cdot 1 \\ 0 \end{bmatrix}$	$\begin{array}{c c} 0 \cdot 1 \\ 0 \cdot 01 \end{array}$	0.04	$\begin{array}{c c} 0 \cdot 1 \\ 0 \cdot 01 \end{array}$	$\begin{bmatrix} 0 \cdot 1 \\ 0 \end{bmatrix}$	0.8
$1 \cdot 2$	0.02 0.7	0.8	0.4	0.5	0.5	0.7	1.0	12.4	5.8
0 6	0.3	0.4	0.3	0.2	0.5	0.8	0.3	3.0	$1 \cdot 2$
$22 \cdot 9$	$23 \cdot 8$	$18 \cdot 9$	17.5	11.2	$9.\overline{5}$	9.4	8.4	6.8	6.9
0.9	$9 \cdot 2$	$7 \cdot 2$	6.5	4.5	3.1	3.1	3 · 4	2.9	2.9
$66 \cdot 7$	$24 \cdot 4$	41.3	30.4	38.4	36.0	33.2	56.7	15.0	51.5
$21 \cdot 2$	5 9	14.0	7.9	9.5	7.0	12.3	13.0	2.9	14.5
18.4	38 · 9	39 · 4	38.1	35.3	34.0	33.8	36.2	34 · 4	37 · 1
20.2	$20 \cdot 9$	21.6	20.5	20.2	18.7	19.0	19.1	$20\cdot 2$	17.7
6 ·0	39.8	39.3	12.4	29.9	30.2	25.9	37.4	30.3	27.6
$\begin{array}{c} 30 \cdot 7 \\ 5 \cdot 1 \end{array}$	$33 \cdot 1$ $7 \cdot 1$	$29 \cdot 7$ $6 \cdot 0$	$\begin{array}{c c} 27 \cdot 0 \\ 7 \cdot 5 \end{array}$	24·4 4·8	$ \begin{array}{c c} 20.6 \\ 9.2 \end{array} $	18.2	24.6	$\begin{array}{c c} 21.5 \\ 10.0 \end{array}$	28·1 10·4
0.05	0.1	0.1	0.1	0.1	0.04	0 01	0.01	0.02	04.4
1.9	$2\cdot 2$	$2 \cdot 0$	$2 \cdot 2$	1.5	1.6	1.5	1.5	1.6	1.8
$1 \cdot 2$	1.1	0.9	1.0	0.8	0.7	0.5	0.4	0.3	0.4
$20 \cdot \overline{6}$	$10 \cdot 7$	9.5	6.8	6.2	7.1	6.4	5.7	5.8	5.0
3 · 3	$3 \cdot 5$	3.0	2 · 1	1.8	1.3	1.2	1.0	1.0	1.0
75.3	80.7	63.6	81.7	96.8	29 8	26.3	31.7	38.2	41.2
1.3	1.3	$1\cdot 2$	1.8	0.4	0.2	0.2	0.4	0.3	0.4
$21 \cdot 5$	$94 \cdot 9$	214.7	$32 \cdot 9$	51.1	35.2	22.7	14.1	20.8	12.4
$2\cdot 3$	7.7	10.6	0.3	0.1	0.2	$\begin{array}{c c} 0 \cdot 1 \\ 7 \cdot 6 \end{array}$	0.1 7.0	$ \begin{vmatrix} 0 \cdot 1 \\ 8 \cdot 1 \end{vmatrix} $	0.1 4.3
$\begin{bmatrix} 0 \\ 0 \end{bmatrix}$	$\begin{bmatrix} 0 \\ 0 \end{bmatrix}$	$1238 \cdot 2 \\ 0 \cdot 08$	789.8	$\begin{array}{c c} 31 \cdot 3 \\ 0 \cdot 02 \end{array}$	$\begin{array}{c c} 17.6 \\ 0.01 \end{array}$. 0	0	0	0
0.1	0.08	0.08	0.02	0.03	0.05	0.01	0.01	0.01	0.04
0.02	0.05	0.01	0.01	0.06	0.01	0	0.01	0.01	0.01
$13 \cdot 1$	11.8	6.9	10.4	5.0	11.4	3.9	6.9	4.8	5.8
0.8	0.6	0.6	0.5	0.3	0.3	0.1	0.4	0.3	0.3
8.4	8.3	6.0	9.7	7.1	9.8	7.1	13.2	8.5	11.2
0.2	0.5	0.1	0.1	0.07	0.05	0.04	0.04	0	0.01
0.05	0.03	0.1	0.08	0.1	0.06	0.1	0.4	0.4	0.4
0.01	0.02	0.02	0.01	0.01	0.01	0.03	0.02	$egin{array}{c} 0 \ 1\cdot 1 \end{array}$	0.01 0.9
$3 \cdot 0$ $0 \cdot 5$	$egin{array}{c} 2\cdot 3 \ 0\cdot 4 \end{array}$	$\begin{array}{c} 1\cdot 3 \\ 0\cdot 3 \end{array}$	$\begin{array}{c} 1 \cdot 9 \\ 0 \cdot 3 \end{array}$	0.7 0.3	0.8	0.3	$\begin{array}{c} 1 \cdot 0 \\ 0 \cdot 3 \end{array}$	0.3	0.5
$\frac{0.3}{2.7}$	$2\cdot 5$	$3 \cdot 1$	2.5	2.4	2.3	$2 \cdot 1$	$2 \cdot 1$	$2 \cdot 3$	$2 \cdot 7$
1.8	1.7	1.9	$1 \cdot 7$	$2 \cdot 5$	1.6	$1 \cdot 6$	1.4	1.7	1.9
0.03	0.04	0 06	0.04	0.01	0.06	0:03	0.07	0.04	0.09
0.11	0.01	0.03	0.03	0.03	0.07	0.14	0.05	0.01	0.06
$18 \cdot 5$	11.2	9.5	8.7	6.5	7.6	7.2	7.3	7.4	8.0
1.8	1.2	0.9	0.8	0.5	0.5	0.4	0.3	0.3	0.2
0	0	0.06	5.6	6.1	1.2	0.03	0	0	0
0	0	0	4.9	1.3	0.2	0	0	0	0
				1			1		

TABLE No. 14.—INFECTIOUS DISEAS

	Tyr	hus	Small	l pox	Typ	hoid	Scal	elet F.	Cerebro	Spin
Localities					-31			1	fe'	Ver
	50	51	50	51	50	51	50	51	50	51
								0		1
Cairo	32	33	1	2	3,902	3,368	10	45	1,307	2
Alexandria	6	1	and the second		734	861	3	104	403	4
Ismailia	-				42	35	_	3	19	
Port Said					1,062	554	9	11	74	
Damietta	3			_	44	51	_	 ,	7	-
Suez	- Controls		5		146	163			42	
Frontier Districts	11	1	1		16	34			7	
Behera	4	12	_	_	227	187			62	
Dakahlia	27	5	1		197	139		-,-	50	
Fouadia				_	19	27		_	5	
Gharbia	6	_			24 8	234			148	
Menonfia	2	20			81	66	_		- 22	
Kaliubia	5	2			173	175	-		45	
Sharkia	5	-	_	_	98	85	_		76	
Aswan		-	-		12	36	-		10	
Assist	2	1	1		16 8	154	1	-	70	
Beni Suef	-	8			34	48		-	_ 7	
Fayoum	·		_	_	95	60	-	_	4	
Gerga		. 2		-	120	116	-		42	
Giga	2	6	-	-	258	277	1	-	99	
Minia,	-	-		-	66	62	-	1	16	
Q80.8	- Approximate the second	1	displants		44	62		-	6	
Total	105	92	9	2	7,886	6,794	24	165	2,521	1,2

es, 1950—19**5**1

iph	theria	, M e	easles	Pulm Tubero	onary culosis	Acute P	neumonia	Chick	en Pox	Puerpe	eral Sep.	Dys	entery
	51	50	51	50	51	50	51	50	51	50	51	50	51
													1
538	554	5 86	2,248	3,564	2,567	2,163	2,845	731	776	145	186	179	222
257	269	1,180	2,971	1,180	902	2,979	3,561	571	560	102	82	26]	170
13	3	1	6	. 3	17	30	27	2	15		1	2	2
4 2	26	85	111	161	179	288	281	196	134	2	3	32	31
3	3		1	23	5	17	8	5	26		-		_
20	20	8	39	63	69	125	128	58	48	6	12	67	18
3	14	99	1,683	18	19	19	19	37	43	- 2		52	88
37	37	60	230	107	115	54	83	69	123	1	4	7	14
33	74	2 8	186	297	304	46	44	19	34	9	5	21	3
11	3	9	27	66	66	17	18	15	16	-vior-assusp	2	29	17
0 8	125	62	229	289	207	114	111	86	85	3	6	25	11
3 3	20	171	652	128	81	25	27	19	29	10	13	12	5
59	57	11	280	165	116	81	92	34	8	3	6	15	7
54	42	17	172	170	60	22	15	58	33	1	6	63	78
3	. 8		8	109	83	8	5	3	9	1		7	democray
51	38	32	264	143	184	98	76	12	- 25	10	7	4 8	. 3
14	14	29	54	91	105	8	69	13	19	2	4	6	5
22	22	62	170	130	150	33	52	19	42	3	1	80	20
12	23	87	442	113	99	59	43	12	13	3	2	19	15
12	59	32	629	104	132	122	213	71	100	7	17	5	15
26	25	379	226	53	64	34	61	11	28	3	6	210	279
8	5	130	128	134	137	44	56	2	1	7	7	50	37
39	1,441	3,068	10,756	7,011	5,661	6,386	7,840	2,043	2,167	320	370	ĭ,190	1,040

TABLE No. 14.—INFECTIOUS DISE

													-				
				2142				Jnflu	uenza	Malaria	a New	Mala Recur	laria irrent	Anth	rax	Whoo Cou	pin 1gh
			Loca	dities				50	51	50	51	50	51	50	51	50	
								,									
Cairo	•••	•••	•••	•••		•••	• • •	6,782	2,896	509	341	8	6	_	_	136	
Alexandı	ria	•••	• • •	•••			• • •	2,175	2,928	91	116	-	-	-		267	
Ismailia	•••	•••	. ***		•••		•••	35	52	56	15	_	_	_	_	3	
Port Sai	d	•••					•••	677	436	_ 77	32	_			_	5	
Damietts	3	• • •	•••	•••	•••	•••	•••	41	41	14	2	-	-	-	_	_	
Suez	•••	•••	•••	•••	• • •	•••	•••	66	60	12	7	5	4	_		12	
Frontier	Dis	trict	8	•••	•••	•••	• • •	20	19	153	320	_	33		-	-	
Behera	•••	•••	•••	•••		•••	• • •	133	296	188	324	7	40	_	-)	21	
Fouadia	•••	•••	•••	•••	•••	•••	•••	172	137	271	95	7	19	_	_	3	
Dakahlia		•••	,	•••	•••	•••	• • •	62	. 11	182	37	1,291	478		_	_	
Gharbia	• • •		•••	•••	•••	•••	•••	281	293	129	116	_		2	5	35	
Menoufia		•••	• • •	•••	•••	•••	•••	114	146	26	21	84	69	1	_	29	
Kaliubia		• • •	•••		• • •	•••	• • •	233	272	418	105	33	38	-		6	
Sharkia	• • •	• • •		•••	•••	•••	• • •	86	30	925	5 9 8	40	127	_	_	20	
Aswan		• • •	• • •		• • •	•••	•••	39	69	_	_	_	1	-	_	7	
Assiut	• • •	•••	•••	•••	• • •	•••	• • •	237	196	72	12	1	_	_	_	27	
Beni Sue	f	• • •		• • •	•••	•••	• • •	57	96	239	71	1	5		-	_	
Fayoum	• •	• • •	• • •	•••	•••		• • •	28	44	60	88	154	38	_	_	94	
Gerga	• • •	•••	•••	• • •	•••	•••	• • •	67	70	12	2	_	2	_		5	
Gîza	* • •	• • •			• • •	• • •	•••	233	259	254	53	1	_	_	_	247	
Minia	• • •	,		•••	•••	•••	•••	146	93	515	232	5	1	_	_	27	
Qena		• • •	•••	•••	•••	•••	•••	113	152	48	11	16	43	-	4	45	
				TO.	-17			W MOI	9 506	4 951	9 500	1 054	004		9	080	-
			A CONTRACTOR OF THE PARTY OF TH	To	TAL	•••	•••	7,781	8,596	4,251	2,598	1,654	904	3	3	989	

rotitis	Undula	nt fever	Lep	rosy		tanus	Polion	oute myelitis	Ery	sipelas
51	50	51 \	50	51	50	51	50	51	50	51
		•	1							,
90	4 58	55	4	1	61	84	1	6	301	45
52	3	2	2		47	70	3	4	622	59
3	4 —		-	-	2	9	***************************************		3	
0 1	5 —		1	-	12	6	Autorio de		89	7
5 —				1	3		- decorptions		11	6
6	1 —		2		2	1	- Control of the Cont		14	10
5 7	3		1			1			7	. (
9 18	3			1	53	51		3	46	53
3 1	9 3		17	19	21	30		_	78	57
1 4	1		2	1	17	2 2			25	14
2 14	4	1	3	3	44	41	2	1	74	102
10	7 1		21	39	52	46			32	61
2	1	6	3	6	18	20			35	54
4		1	7	16	2 2	18	2	1	46	41
3	2 _		2	9	1	4	_	_	2	4
20			14	9	38	45	-	2	16	11
. 23	3 -		103	17	9	7	-	approximate .	14	21
1	1	4	6	4	8	11		1	[16]	18
1		***************************************	9	27	13	14			10	5
78	8	5	8	8	14	33	_		18	45
10	2		16	14	2 2	28			38	3 5
E			12	3	13	15	-		6	11
2,330	82	74	233	178	472	556	8	18	1,503	1,675

TABLE No. 15. — INFECTIOUS DISEASES O

	Typhus		Small-Pox		Typhoid fever		Scarlet fever		Cerebro Sp fever					
Lossliti	66				50	51	50	51	50	51	50	51	50	
Cairo	• • •	•••	•••	•••	1.4	1.4	0.04	0.09	174.5	146.7	0.4	2.0	58•4	
Alexandria	•••	•••	• • •	•••	0.6	1.1		_	73.0	83.2	0.3	10.0	40.0	
Ismailia	•••	e s • •	• • •	•••		 ,			30.0	24.1		2.1	13.6	
Port Said	•••	•••	•••						542.9	276.6	4.6	5.2	37 · 8	
Damietta	•••	• • •	•••	•	5.1	-			74.2	83 • 5	-		11.8	
Sue	•••	•••	•••		_	-	4.2		123 · 4	133 · 2	_	<u> </u>	35.5	
Frontier Districts	•••	• • •	• • •		6.3	0.6	0.6		9.1	18.9	_		4.0	
Behera	•••	• • •	* * *		0.3	0.9			17.0	13.6	<u> </u>		4.6	
Dakahlia	•••		•••		1.8	0.3	0.7		12.9	8.9	_	100	3.3	
Fouadia	•••	• • •	•••		_	_			2.3	3.2			0.6	
Gharbia	•••	. 8 4	•••		0.4	_		-	14.5	13.9	_	ō,06	8.7	
Menoufia	•••	• • •	. 4 3		0.2	1.6			6.5	5.2		<u></u>	1.8	
Kaliubia	•••				0.7	0.3			23 · 1	2 2·8		<u></u>	6.0	
Sharkia	•••		• • •		0.4				7.1	6.0			5•5	
Aswan	•••		•••						$2\cdot 9$	11.4			3.2	
Assiut		• • •		• • •	0.1	0.07	0.7		11.5	10.3	0.07		4.8	
Beni Suef	•••	• • •	• \$ 4	• • •		1.2			5.2	7.2		100	1.1	
Fayoum	1		•					_	13.3	8.2			0.6	
Garga		•••	•••	•••	_	0.1		_	8.8	8.4			3.1	
Giza		•••	* * *	•••	0.2	0.6		_	39.1	29.6	0.1		10.8	
Minia		•••	•••	•••		وسنتي		_	5.9	5.4		0.09	1:4	
Qents		• 6 •		•••		0.08		_	3.8	$5 \cdot 2$	-		0.3	
														-
-	To	OTAL	•••	• • •	0.2	0.4	0.04	0.01	38.7	32.6	0.1	0.8	12.4	

PER 100,000 POPULATION 1950 AND 1951.

htheria Measles		les	Pulmo T.1	onary	Acu Pneun		Chicke	n Pox	Puerperal Sep.		Dysentery		
	51	50	51	50	51	50	51	59	51	50	51	50	51
1	24·1	26.2	97.9	159 · 4	111.8	96.0	124	32.7	33.8	6.5	8.1	8.0	9.7
6	26.0	117.3	287.0	117.3	87.1	292.2	344.0	56.7	54.1	10.1	7.9	26.0	16.4
3	2.1	0.7	4.1	2.1	11.7	21.4	18.5	1.4	10.3	_	0.7	1.4	1.4
5	13.0	43.5	55.4	82.3	89.0	147.2	140.3	100.0	66.9	1.0	1.5	16.4	15.5
1	5.0		1.6	38.8	8.2	28.7	13.1	8-4	42.6		androg der		gulatermann
9	16.3	6.8	31.9	53.3	56.4	105.7	104.6	49.0	39.2	5.1	9.8	5.66	14.7
7	7.8	56.4	934.0	10.2	10.5	10.8	10.5	21.1	39:9	1.1	_	29.8	48.8
8	2.7	4.5	16.8	8.0	8.4	4.0	9.1	5.2	9.0	0.07	0.3	0.5	1.0
2	4.7	1.8	11.9	19.4	19.4	3.0	2.8	1.2	2.2	0.6	0.3	1.4	0.2
4	0.4	1.1	3.2	8.2	7.9	2.1	2.3	1.9	1.9		0.2	3.8	2.0
3	7.1	3.6	13.1	16.9	11.8	6.7	6.3	5.0	4.8	0.2	0.3	1.5	0.6
7	1.6	13.7	51 ·6	10:3	6.4	2.0	2.1	1.5	2.3	0.8	1.0	1.0	0.4
.9	7:4	1.5	36•6	22.0	15.1	10.8	12.0	4.5	1.0	0.4	0.8	-2.0	0.9
9	3.0	1.2	12.2	12.4	4.3	1.6	0:07	4.2	2.3	0.07	0.4	4.6	5.5
0	2.5	_	2.5	3 5·3	26.4	2.6	1.6	1.0	2.9	0.3		2.3	
•5	2.6	2.2	17.7	9.8	12.4	6.7	5.1	0.8	1.7	0.7	0.5	3.7	0.2
·2	2.1	4.4	8.1	13.9	15.5	1.2	10.3	2.0	2.8	0.3	0.6	0.9	0.7
.1	3.0	8.7	23.4	18.2	20.6	4.6	7.1	2.7	5.8	0.4	0.1	8.4	0.7
.9	1.7	6.4	31.9	8.3	7.1	4.3	3.1	0.9	0.9	0.2	0.1	1.4	1.1
•6	6.3	3.5	67.3	11.4	14.1	13.3	22.8	7.8	10.7	0.8	1.8	0.5	1.6
•3	2.2	33.7	19.7	4.7	5.6	3.0	5.8	1.0	3.4	0.3	0.5	18.7	24.3
•7	0.4	11.1	10.7	11.4	11.5	3.8	4.7	0.2	0.08	0.6	0.6	4.4	3.1
-			27.4	01.1	(D) (V)	91 0	914.0	10.0	10.4	1.6	1.8	5.8	5.0
.8	6.9	15.0	51.5	34.4	27.1	31.3	37.6	10.0	10.4	1.0	1.8	9.8	3.0

TABLE No. 15.—Infectious Diseases Cas

	Influenza		Malaria New		Malaria Recurrent		Anthrax		Whooping		
Localities		100	50	51	50	51	50	51	50	51	50
					-						
Cairo	•••	•••	124.4	126;2	22.8	14.9	0.4	0.3	-	_	6.1
Alexandria	•••	•••	214.5	282.8	9.0	11.2					26.6
Ismailia	•••	•••	25.0	35.7	40.0	10.7	_			-	2.1
Port Said	•••	•••	346 · 1	217.7	39.4	16.0				_	2.6
Damietta	•••	•••	69.1	67.1	23.6	3.2	-	-		_	- 1
Sue z	•••	•••	55.7	49.0	10.1	5.7	5.1	3.3	_		10.1
Frontier Districts	•••	•••	11.4	10.5	87.1	177.6	-	18.3	_	-	. —
Behera			9.9	21.6	14.0	23.6	0.5	2.9	_		1.6
Dakahlia	•••	•••	11.3	8.7	17.7	6.1	0.5	1.2		_	0.2
Fouadia		•••	7.7	1.3	2 5·2	4.5	59.5	57.5		_	_
Gharbia	•••	•••	16.5	16.7	7.6	•6 • 6			0.1	0.3	2.1
Menoufia	•••	•••	9.2	10.2	2.1	1.7	6.8	5.4	0.08		2.3
Kaliubia	•••	•••	31.1	35.5	55.8		4.4	5.0			0.8
Sharkia	•••	•••	6.4	2.1	67.4	42.5	2.9	9.0			1.9
Asw an	•••	•••	12.6	21.9				0.3			2.3
Assiut	•••	•••	16.4	13.2	4.9	0.8	0.07		_	-	1.8
Beni Suef	•••	•••	8.7	14.3	36.5	10.6	0.2	0.7	_	`	_
Fayoum	•••	•••	3.9	6.0	8 ·4	12.1	21.6	5.2		_	13.3
Gerga	•••	*** ***	4.9	5•0	0.9	0.1		0.1		_	0.4
Gîza	•••	•••	25.5	27.7	27.7	5.7	0.1			_	27.0
Minia	•••	•••	13.0	8.1	45.8	$2 \cdot 2$	0.4	0.09	-	_	2.4
Qena	•••	•••	9.6	12.7	4.1	0.9	1.4	3.6	-	0.3	3.8
	Total	•••	38.2	41 · 2	20.8	12.4	8·1	4.3	0.01	0.04	4.8

PER 100,000 POPULATION 1950 AND 1951 (contd.)

Parot	itis (Undulai	nt fever	Lepro	osy	Tets	anus	Act Polion	ate nyelitis	Erysip	elas
	51	50	51	50	51	50	51	50	51	50	51
							•				
3.9	41.0	2.6	2.4	0.2	0.04	$2\cdot 7$	2.8	0.04	0.3	13.5	19.6
3.0	50.5	0.1	0.2	0.2	_	4.7	6.7	0.3	0.4	61.8	57.5
:1	2.8	_	_		_	1.4	6.2		_	2.1	1.4
6.6	7.5	_		0.5		6.1	3.0		_	55.4	38.4
3.4	_		<u> </u>	-	1.6	5.1	_		_	18.5	1.2
5.1	49.8		2.0	1.7	_	1.7	0.8		_	11.8	8.2
.0	40.5			0.6			0.6		_	4.0	3.3
1.4	13.3	0.1	_	_	0.07	4.0	3.7		0.2	3.4	3.9
3.1	1.3	0.2		1.1	1.2	1.4	1.9		<u>·</u>	5.1	3.6
)·1	4.9	0.1	_	0.2	0.1	2.1	2.6		_	3.1	1.7
3.6	8.3	0.2	0.06	0.2	0.2	2.6	2.3	0.1	0.06	4.3	5 ·8
.1	8.4	0.08	_	1.7	3.1	4.2	3.6		_	2.6	4.8
1.2	2.7	0.1	0.8	0.4	0.8	2.4	2.6		_	4.7	7.1
8.8	3.5	_	0.07	0.5	1.1	1.6	1.3	0.1	0.07	3.4	2.9
1.0	0.6	_	_	0.6	2.9	0.3	1.3		_	0.6	1.3
1.4	1.3			1.0	0.6	$2 \cdot 6$	3.0		0.1	1.1	0.7
0.2	3.4			15.7	2.5	1.4	1.0		_	2.2	3.1
5.7	1.9	0.1		0.8	[0.5	1.1	1.5		0.1	2.2	2.5
0.3	1.0			0.7	1.9	1.0	1.0	_	_	0.7	0.4
1 • 4	8.3	0.9	0.5	0.9	0.9	1.5	3.5		_	2.0	4.8
1 · 1	0.9	0.2	-	1.4	1.2	1.9	2.4	_	_	3.4	3.0
0.3	0.4	_		1.0	0.3	1.1	1.3		_	0.5	0.9
8.5	11.2	0.4	0.4	1.1	0.9	2·3	2.7	.0.04	0.09	7.4	8:0

TABLE No. 16.—Infectious Diseases

L said	Typ	hus	Typhoid	fever	Cerebro Sp	inal Féver.	Dipht	herla
Localities	50	51	50	51	50	51	50	51
Cairo	4	1	319	. 274	153	33	120	135
Alexandria	. -		71	57	68	59	72	55
Ismailia	. -		7	6	2	4	2	1
Port Said	. -		27	17	6	. 9	5	6
Damietta	. -		2	4	3	,	3	4
Suez		_	. 8	12	2	2	8	5
Frontier Districts	. 1	1	3	2	2	2	3	3
Behera	. 1	1	21	20	16	12	17	17
Dakahlia	. 3	1	31	24	6	13	15	42
77. 7°	. -	_	3	2	_	3	7	1
Cll.	. 2		39	34	28	15	81	102
Menoufia		2	13	11	7	9	36	17
Kaliubia	. 2		30	18	10	13	46	40
CI . I ·	. 1		17	18	23	14	19	25
•		-	2	7	3	3	2	6
Assiut	2	-	20	20	12	8	23	14
		2	2	10	2	. 5	7	14
-	, -		18	7	2	5	19	19
Condo			22	16	12	. 10	13	1
Ci-a		1	167	80		21	70	55
Minio		- Control Control	5	12		2	22	2
0	-	_	9	11			7	-
Total	16	9	836	662	401	242	597	59

EATHS, 1950—1951

Мөг	ısles	Pulm T.	on ary B,	Aoute I	Pneumonia	Chiel	ken poz	Pu Sep	erperal ticaemia	Dy	sentery
50	51	50	51	50	51 .	50	51	50	51	50	51
260	1081	1,548	1,374	1,429	1,776	2	2	20	25	87	73
60	211	597	564	1,,409	1'669	-	1	10	6	47	25
4	10	55	61	233	173	-			1	6	5
9	27	148	137	49	74	-	_	1		3	2
-	1	27	. 26	2	3	_	_	-	-	1	-
	53	47	32	18	11		1	1	2	1	and the same of th
10	388	21	9	6	15			1	_	2	-toniquip
19	97	. 133	121	41	112	1	2	_	1	7	1
6	14	238	147	27	49	_	_	2	5	1	7
/	2	36	22	17	6	-			1	2	2
1	48	189	184	250	315	_	-	3	6	8	8
23	72	98	169	50	130	-		1	8	3	1
_	57	105	121	49	87	_	-	-	2	2	4
5	36 \	143	76	62	96	_		5	5	3	6
2	2	70	- 49	245	188	_		5	5	-	3
19	247	110	127	87	144		-	2	7	19	10
1	43	64	71	71	32	1			4	_	3
14	73	109	58	18,	39	_		- 1	-	- 7	· -
41	131	50	48	71	2 50	-	-	—,	1	2	1
15	194	194	149	112	89	1		6	2	5	6
E4	73	82	69	19	69	-	1	`	5	3	5
55	55	50	48	98	269	-	-	5	5	1	20
598	2,915	4,114	3,689	4,383	5,874	5	8	59	88	203	182

TABLE No. 16. — INFECTIOUS DISEASE

		Influen	ıza	Malar New-C		Ant	thrax	Whooping	Cough
Localities		50	51	50	51	50	51	50	51
		-							
Cairo	*** ***	9	8	4	3		_	11	
Alexandria	••• •••	2	4	1		<u> </u>	_	17	
Ismailia	••• •••	_			<u> </u>	_	_	1	
Port Said	••• •••	2		.	_	_	-	1	
Damietta	*** *** ***	-		_	_		_	_	
Suez	••• •••	_		1 _	_	_	0 —	_	
Frontier Districts	••• ••• •••	-		_	16	-	_	_	_
Behera	••• ••• •••	2	9	3	-	_	-	1	
Dakahlia	••• ••• •••	4	2	1	_	_		1	I -
Fouadia	••• •••	_		1		_	_	_	1-
Gharbia	••• •••	3	2	1			1 –	2	
Menoufia	*** ***	1	4	3		L —	_	-	
Kaliubia	••• •••	4	11	_	-	_	_	1	
Sharkia	••• •••	6	5		2	2 -	- /	1	
Aswan	••• •••	1	2		_		-	_	
Assiut	••• •••	5	6	_	_	_	_	8	
Beni Suef ,	••• ••• •••	10	3	_	_	-		_	
Fayoum	••• ••• •••	3	1	·	2	_	_	_	1
Gerga	••• •••	2	2	_	_			-	-
Giza '	••• •••	0	2	1	_	_	-	6	
Minia	••• •••	13	9	_	1	*	-	_	
Qena	••• •••	4	4	-	_	_	3	2	-
То	TAL	71	74	15	25	1	3	55	

rus 1950 — 1951 (contd.)

Par	otitis	Undula	ant fever	Len	rosy	Teta	anus	Polio	nyelitis	Erysip	elas
	1								1		1
)	51	50	51	50	51	50	51	50	51	50	51
		-									
			1			32	41	1	4	. 17	7
ı	_		1					•	3		
		_				32 3			3	10	9
1	1	_	_							1	
ı	_		_			4	2	**************************************			
	_		_		_		1	£.A		_	
	_		_			1	1	***************************************	_	_	_
		_	_		_	-	_	_	<u> </u>	1	_
	-	_		5	2	37	42				_
	1,	_		2	4	26	20	_			2
	1	_	-	2	1	13	11	_	1	2	_
	_	-	_	2	1	31	43	_	2'	3	2
			_	7	43	34	3 8		-	1	2
				3	11	19	24	_	_	2	4
I				5		16	17	_	1	4	5
			_	1	1	_	3		_		
	_		_	1	7	25	34	1	_	3	2
	-	_	_	3	5	10	8	_	_	1	1
		_	_	. 1	2	4	6		1	3	
		_	_	7	3	13	16	_	_		-
	_	_	1	3	5	23	21	_	-	2	3
		_	'	5	25	18	14	_	_	2	2
	_	_	_	2	4	6	10	-			_
	3		2	49	105	347	399	1	12	52	35

TABLE No. 17.-INFECTIOUS DISEASES DE

	Тур	hus	Typl fer	ocid rer	Cerebro S	pinal fever	Dipht	heria
Localities	50	51	50	51	50	51	50	5
Cairo	0.2	0.04	14.2	11.9	6.8	1.4	5•4	
Alexandria	-		7.1	4.5	6.8	5.7	7.2	
Ismailia			5.0	4.1	1.4	2.8	1.4	
Port Said			13.8	8.5	3;1	2.5	2.6	
Damietta			3.4	6.5	5.1		5.1	ı
Suez			6.8	9.8	1.7	1.6	8.6	
Frontier Districts	0.6	0.6	1.7	1.1	1.1	1.1	1.7	
Behera	0.07	0.07	1.6	1.5	1.2	0.9	1•3	
Dakahlia	0.2	0.06	2.0	1.5	0.4	0.8	1.0	
Fouadia		- Marie Marie	0.4	10.2	_	0.4	0.9	
Gharbia	0.1		2.3	1.9	1.7	0.9	4.7	
Menoufia		0.2	1.0	0.9	0.6	0.7	2.9	
Kaliubia	0.3		4.0	1.4	1.3	1.7	6.1	
Sharkia	- 0.07		1.2	1.3	1.7	1.0	1.4	
Aswan			0.6	3.2	1.0	1.0	1.0	
Assiut	0.1	_	0.3	1.3	0.3	0.5	1•6	
Beni Suef		0.3	0.3	1.5	0.3	0.7	1.0	
Fayoum			2.5	1.6	2.7	0.7	2.0	
Gerga		Cirplanette	1.6	1.2	0.9	0.7	1.0	
Giza		0.1	18.2	8.6	3.6	2.2	7.6	
Minia	_	displacement	0.4	1.0	0.8	0.2	2.0	
Qena	Conjunction .		0.8	0.9	0.08		0.6	
TOTAL	0.08	0.04	4.1	3.2	2.0	1.2	2:9	

PER 100,000 POPULATION, 1950—1951

Meas	eles	Pulmo T.	nary B.	Aou Pnuen		Chicken	n Pox	Puer _l Septic	peral aemia	Dysen	tery
	51	50	51	50	51	50	51	50	51	50	51
	47.1	69 • 2	103 · 4	63.9	76.9	0.08	0.09	0.8	1.1	3.9	3.2
	20.4	59.3	54.4	140.1	161.2	-	0.1	1.0	0.6	4.7	2.4
	6.9	9.3	41.9	166.3	119.0		entity greater	***************************************	0.7	4.3	3.4
,	13.5	55.7	68.4	25.0	37.0	entrophilip	entropolis	0.5	_	1.5	1.0
	1.6	45.5	42.6	3.4	5.0	-		***************************************		1.6	delin angles (
	43.3	39.7	26.1	15.2	9.0		0.8	0.8	1.6	0.8	_
	215·3	12.0	5.0	3.4	8.3	d the state of the	- AND	6		1.1	***************************************
	7.1	9.9	8.8	3.1	8.2	0.07	0.1	entinopolista	0.07	0.5	0.07
	0.9	15.6	9.4	1.8	3.1	deliteratura		0.1	0.3	0.07	0.4
	0.2	4.4	2.6	· 2·1	0.7		0.1	_	0.1	0.2	0.2
)6	2.7	11.1	10.5	14.7	18.1	entinegatigg	entinophiggs	0.2	0.3	0.5	0.5
3	5.7	7.9	13.3	4.0	10.2		- Annapology	0.08	0.6	0.2	0.08
	7.4	14.0	15.8	6.5	11.4	entings right			0.3	0.3	0.5
Ļ	2.6	10.4	5.4	4.5	6.8	0.2		0.4	0•4	0.2	0.4
)	0.6	2.26	15.6	9.3	59.7	entinopologija		0.3			1.0
3	16.6	7.5	8.5	.6.0	9.7	-		0.1	0.5	1.3	0.7
2	6.4	9.8	10.6	10.8	4.78	0.1	delinings		0.6	***************************************	0.4
0	10.0	15.3	8.0	2.5	5.4			0.1			_
0	9.4	3.6	3.5	6.7	18.0				0.07	0.1	0.7
6	20.7	31.2	15.9	12.2	.9.2	and the same of th		0.7	0.2	0.5	0.6
8	6.4	7.3	8.4	1.7	6.0		0.09	-	0.4	0.3	0.4
7	4.6	4.2	4.0	8.3	22.6	entitive glandige		0.4	0.4	0.08	1.7
9 ,	14.0	20.2	17.7	21.5	28.1	0.2	0.04	0.3	0.4	1.0	1.0

TABLE No. 17.—Infectious Diseases D

	Infl	uenza	Malai	ria New	An	thrax	Who	oping
Localities	50	51	50	51	50	51	50	
Cairo	0.4	0.3	1.4	0.1	· -	_	0.5	
Alexandria	0.2	0.4	0.1	_	-		1.7	
Ismailia		_		_	. —	_	0.7	
Port Said	1.0	_		_	-	_	0.5	
Damietta				_	_	-	<u></u>	
Suez		_	_	_	_	- 1		
Frontier Districts		_	_	8.8	_·	_	_	
Behera	0.1	0.7	0.2	_	_	_	0.07	
Dakahlia	0.3	0.1	0.07	_	_	_	0.07	
Fouadia	_		0.1	_	·		_	
Gharbia	0.2	. 1	0.06		0.06	_	0.1	
Menoufia	0.08	0.3	0.2	0.08	-	_	0.2	
Kaliubia	0.5	1.4	_		_		0.1	
Sharkia	0.4	0•4	_	0.1	_	-	0.07	
Aswan	0.3	0.6		_	_	_	_	
Assiut	0.3	0.4	_		-	_	0.5	
Bien Suef	5.1	0.4			_		_	
Fayoum	0.4	0.1		0.3	_	_		
Gerga	0.1	0.1	_		_		+	
Giza	_	0.2	0.1	_	_	_	0.7	
Minia	1.2	0.8		0.09		_	-	0
Qena	0.3	0.3		_	_	0.3	0.2	
Total	0 · 3	0.4	0.07	0 · 1	0.01	, 0.01	0 · 3	

PER 100,000 POPULATION, 1950—1951 (contd.)

,

otitis		ulant ver	Lep	rosy	Teta	anus		cute nyelitis	Erysi	pelas
51	50	51	50	51	50	51	50	51	50	51
								-		
	_	0.04			1.4	1.8	0.04	0.2	0.8	0.3
_	_	_	_	_	3.2	3.7		0.3	1.0	0.2
0.6	_		_		2.1	6.2		_	0.7	
_	_	_	_	_	2.0	1.0				_
_	_	_				1.6	_			
	_				0.8	0.8	_			
	_	_	_	_					0.6	укляде бо
_	-	_	. 0.4	0.1	2.8	3.1	_		,	
	_	_	0.1	0.3	1.7	1.3	_			0.1
<u> </u>	_		0.2	0.1	1.6	1.3		0.1	0.4	
0.06	-		0.1	0.06	1.8	2.5		0.1	0.2	0.1
0.08	-	_	0.7	2.7	2.7	3.0			0.08	0.2
-		_	0.4	1.4	2.5	3.1	_		0.3	0 5
_	_	_	0.4		1.2	1.2	_	0.07	0.3	0.4
			0.3	0.3	_	-1.0			_	
		_	0 07	5.6	1.7	2.3	_	0.1	0.1	0.1
_	_		0.5	0.7	1.5	1.2	_	_	0.2	0.1
0.5			0.1	0.3	0.7	0.8		0.1	0.4	-
	-	-	0.5	0.2	1.0	1.0		-	}	0.4
-	_	0.01	0.3	0.5	2.5	$2\cdot 2$	_		0.2	6.3
		_	0.4	2.2	1.6	1.2	_	_	0.2	0.2
	_		0.2	0.3	0.5	0.8		_		0.9
0.01		0.01	0.2	0.5	1.7	1.9	0 · 01	0.06	0.2	0.3

Frontier Districts Medical Service.

Vital Statistics:

The population of the frontier districts totalled 185,187. The births totalled 8,042 or 43 per thousand of the population. The deaths totalled 3,705 or 20 per thousand. Infantile deaths under one year of age numbered 1,360 or 36% of total deaths. The causes of these deaths are mainly congenital debility, gastritis and enteritis and broncho pneumonia.

Anti Small pox vaccination:

Of 7, 344 infants vaccinated against small pox, 6,620 or 90% gave successful results.

Prophylactic Vaccination:

377 persons were inoculated against typhoid, 1,220 against diphtheria, 190 against cholera and 35 against plague.

Infectious Diseases:

No cases of typhus occurred in the frontier districts except one in Amria village as compared with 12 cases in the same village during the previous year. Three cases of cerebro spinal fever were recorded as against seven in the preceding year. The cases were reported from Kharga, Amria and Kantara East. Measles broke out in Kharga, Dakhla and Baharia oases. 670 cases were reported from the first, 610 from the seeond and 352 from the third. 151 cases of malignant malaria were reported from Siwa and 141 from Baharia oases.

Pilgrims:

These numbered 197. 5 pilgrims died in the Hedjaz and none of the returning pilgrims developed any illness.

Potable Water Supply:

- (1) The population of the oases draw their drinking water from natural sources, i.e. artesian wells or springs. They carry the water by their special means.
- (2) In the Western desert and as far as Mersa Matruh, the population draw their water from the Alexandria —Mersa Matruh filtered water supply. Mersa Matruh has also an auxiliary unfiltered water supply in the way of artesian wells and Roman cisterns. Sidi Barrani draws unfiltered water from the artesian wells.
- (3) Quseir, Safaga, and Sollum have condensers for turning sea water into fresh water.
- (4) At Abu Zenima and Hurghada, water is carried in tanks on vessels from Suez to the people who are mostly workmen in the employ of the companies.
- (5) In the Eastern desert, the people in Arish draw their water from artesian wells. At Kantara East, there is a filtered water works.

Sewage Disposal:

Public sewage disposal systems do not exist in the frontier districts. The dug-in latrine is the type in common use. When filled in, it is evacuated in the fields and used as manure. Where companies operate, the pail system is used in residence of staff.

Refuse is collected by sweepers of the Ministry of Public Health or the companies and burnt in incinerators.

Birkas: (Ponds.):

At Wadi Natroun, Arish, Tor, Siwa and Baharia oases, birkas exist round the springs. At Dakhla and Kharga oases, temporary birkas are formed in rice cultivations.

Cemeteries:

None exist in certain district, e.g. Dabaa and Abu Zenima where the Arabs bury their dead in the desert.

Slaughter Houses:

There is a slaughter-house annexed to every frontier district medical unit, except at Sollum, Hammam, Dabaa, and Abu Zenima.

Municipal and Local Councils:

A few have recently been established in some of the districts. The cldest have only been a few years in existence. Scavenging, a pure municipal responsibility, is still carried out by public health scavengers.

Food Control:

The scarcity of samples of foodstuffs taken for analysis is due to the low economic standards and lack of sanitary technicians.

Unhealthy Establishments:

The localities having no sanitary technicians are devoid of licensed establishments, e.g. Hurghada, Wadi Natroun, Safaga and Abu Zenima.

Medico Legal Cases:

The serious and fatal criminal cases were very few in proportion to the total cases.

Venereal Diseases:

No venereal diseases cases of any importance were met with among out-patients or in-patients. This may be explained by either ignorance of the population, their custom of not submitting such infections to medical inspection or scarcity of the incidence of these diseases.

Health Propaganda:

This is not carried out on a wide scale. It is suggested that two vehicles equipped with cinema apparatus be provided to frontier districts for progaganda purposes.

Hospitals:

There are ten government and seven private hospitals with a total accommodation of 253 beds. The former have eight medical officers and the latter seven. During the year, 660 in-patients and 103,908 out-patients were dealt with by these hospitals. These figures do not include out-patients dealt with by health offices in localities having no hospitals.

Public Health Offices provided with Pharmacies:

These are seven in number and have treated 34,119 out-patients during the year.

Medical Personnel:

There is a serious shortage of medical personnel in the frontier districts.

Chapter III. - Nutrition

1.—Surveys:

(1) 1,000 workers at Gebel El Asfar farm and their families were examined to determine their nutritional status. The plasma, protein and hemoglobin levels were also estimated in 25 of them. The following were the results obtained:

Pellagra incidence rate is 1.1%

Riboflavin deficiency 4.3% (43 per thousand). Most cases were males.

- Plasma protein levels varied between 6.5 and 10.5 gr. per cent. The hemoglobin level varied between 85 and 100% (14.5gr.=100%). No incidence of pellagra or riboflavin deficiency were detected among the technical, clerical or junior staff of the farm.
- (2) Data of pellagra cases attending the following units during the last four years were collected with a view to enrich flour with vitamins and mineral salts:
 - ·(a) Billharzia and ancylostoma units thourghout the country (Endemic diseases hospitals).
 - (b) The Research Institute.
 - (c) Mental Hospitals.
 - (d) Manial Hospital.
- (3) A study was made of diets in the various units of the Ministry particularly in Alexandria hospital, Manial hospital, King's hospital and T.B. disease hospitals to estimate how far they meet the actual requirements. Various unified diets were proposed
- (4) A study was carried out at Manial hospital on the effect of cooking on the weight of various foodstuffs: namely potatoes, rice, macaroni and different kinds of beef.
- (5) Experiments were made on cooking of certain national dishes for estimating their nutritional value: Busara and Taameya.
- (6) Analysis of stewed broad-beans and its broth was carried out to compare their food values, with the following results:

		Beans solid			Liquid	
	Max.	Min.	Mean.	Max.	Min.	Mean.
•	%	%	%	%	%	%
Protein	8.85	7.55	8.03	6.47	3.78	4.9
Starch	14.5	11.4	13.2	11.3	5.98	8.33
Fat	0.65	0.3	0.43	0.4	0.17	0.22
Minerals	0.82	0.57	0.73	0.75	0.4	0.61
Fibre	4.59	5.8	5.18	0.55	0.15	0.41
Moisture	74.4	71.2	72.4	88.1	81.2	85.4

This shows that the broth has an appreciable nuritive value since it contains moderate amounts of proteins, carbohydrates and minerals in addition to the vitamins dissolved in water.

(7) At the request of the Ministry of National Defence, samples of Rass and Rumy local made cheese were analysed for comparison of their nutritive value, with the following results:

							Rass Cheese			Rumy Cheese)
						Max.	Min.	Mean.	Max.	Min.	Mean.
Proteins	•••	•••	•••	•••	• • • }	% 26.1	% 22.8	% 24.2	% 26.7	% 21.4	23.7
Fat	•••	•••	•••	•••	• • •	41.4	34.7	39.04	42.9	36.4	39.9
Minerals	•••	•••	• • •	•••	• • •	6.4	3.8	5.06	7.3	5.1	5.8
Moisture	•••	•••	•••	•••	• • •	28.5	15.1	23.69	29.7	18.7	24.8

This shows that the nutritive value of both types of cheese is almost the same.

- (8) In connection with the proposal of enriching flour with minerals and vitamins, locally produced ferrous sulphate and calcium carbonate were considered as a substitute for highly priced imported products.
 - (a) Ferrous Sulphate: Commercial, refined and dehydrated samples were analysed. The commercial and refined samples were free from harmful minerals and complied with the British pharmacopia. The commercial sample was recommended for its cheapness.
 - (b) Calcium carbonate: Of a few samples analysed, one was found free from harmful substances and contained a larger proportion of calcium carbonate. The following is the result of analysis:

Substances	Transport	Porportion
Calcium carbonate	• • • • • •	95.6
Solids insol. in acid		0.045
Chlorides	a	0.03
Sulphate	• • • • • •	trace
Magnesium	• • • • •	,,
Arsenic	•••	Nil

This led to a reduction of 95% of the cost of mineral salts required.

II.—Activities of the Permanent Nutrition Committee:

Undertaking technical secretariat duties and submitting the government annual report on nutritional conditions in Egypt to the F.A.O.

- III.—(a) Educational Missions: A few members of the staff have been sent on educational missions to U.S.A., England and Cairo Universities. Some have returned, while the others are still on their missions.
 - (b) Lectures: Lectures were delivered in the Nutrition Section on the following subjects:

Sources of protein — Food between taste and value — Feeding during pregnancy and lactation — A good breakfast starts a good day.

Chapter IV. - Food Control

Table No. 18—Statistics showing work done by food Control gangs in Customs Houses during 1951

A.—Consignments examined and Results of samples taken therefrom

No. of Consignments	No. of Samples		Results of Analysis	
examined	taken	Genuine	Unfit	Adulterated
14,572	1,143	955	. 86	102

B.—Foodstuffs condemned or refused entry into the country.

Fish Meast 3,647 -	Kind of Food	Kilos	Sacks	Bottles	Cans	Boxes,
Jams and dried fruits	Vegetables and Fruits Fish	1,185		<u>-</u> - -	9444	— 801 — 11
Olive oils	Jams and dried fruits Fruits and Vegetables Fish Meat	4,106 4,934 6,999	529 — — — —		17,383 2,163	755 3,404 199 22
Rice	Olive oil Other oils	842		<u> </u>	31	18 54
Spices S	Rice	2,275 422,446 12				
Other articles 1,280 -	Spices Pepper Tea Coffee Imitation Coffee Tamarind Chemicals for aerated water Vaniline Flour products Sweets and Chocolate Sugar Cheese Butter and mash Alcoholic drinks Non Alcoholic drinks Chestnuts Dry dates Cocoa nut Mineral water Aerated Vinegar Shewing Gum Colouring matters Saffron Capsules Utenrils	5,080 11,827 19,883			6,703 - 545 - 353 - 39 - 3,600 794 - 16 - 2 - 3	

TABLE No. 19.—VARIOUS STATISTICS 1951

P.V. drawn up under law No. (48) of 1941	No. of P.V. drawn up against Itinerant Vendors	No. of P.V. drawn up against Milk Vendors	Itinerant ven- dors licensed during 1951	Milk Vendors licensed during 1951	Bandars to which Itinerant vendors Regula- tions were applied	Bandars to which Milk vendors Regular tions were applied
1,673	7,463	6,395	2,512	431	_	

TABLE No. 20.—Samples of milk taken and the results of their analysis, 1951

		Res	ults of Analysis		
No. of samples	Genuine	Adulterated by removal of fat	Adulterated by addition of water	Adulterated by both	Percentag
13,173	12,038	594	438	103	8.6%

.--QUANTITIES OF FOODSTUFFS CONDEMNED AND NUMBER OF SAMPLES TAKEN AND RESULTS OF THEIR ANALYSIS DURING 1951 TABLE No. 21

TABLE INO. 41	FOUNDATORE										
		Food	Foodstuffs Condemned	ped			Samples taken	taken		Percentage	ıtage
Name of Article	Number	Bottles	Cans	Lbs.	Okes	No. of Samples	Genuine	Adulterated	Unfit	Adulteration	Unfitness
										%	000
	٩٠							-			1.0
A.—Fresh Foods								1			
Fruits and Vegetables	71,236 3,053 25		40 -	25,410 1,345 941	3,265	111	111				
Other Fresh Foods	9,425	က		485	345	,			1	gr) brette	
B.—COOKED FOODS	49,636	67	15	3,140	2,204	1	1		all a		
C.—Canned Foods:								ni n			\ -
Jams Milk and its products Fruits and Vegetables Meat Fish	764	73	474 220 2,197 215, 4,656	2 98 753 58 1,177	34 10 2,932 3 231	28 97 234	27 5 82 5 218	1	1 12 1 19	11111	3.5 15.4 6.8
Other Canned Foods	590	89	857	294	6,630	34	32		63	1	9
Olive oil Linseed oil Lettuce oil Sufflower oil Sufflower oil	i		11111	42 - 2	. 319 - 2 86	. 251 323 7	155 247 275 7 149	4 8 19 1	29	2.1 5.0 6.0	5.4 0.4 8.9 16.6 3.9

127.8	81.4	\$5 60	681	26,294	27,744	67,990	37,814	10,671	11,379	157,276		:	Total	2							
0.1	7		49	618	^	449	10	24	6	179	• • •	: :	: :					inds	Spices Other kinds		
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- 9 6. 0 0 C	+ 0 ° °	9 -	76-	1,179	1,188	550	999	_ 243	- 61	16,975	: :			:		•	neta	~~	Flour	Filo	
	-	C		1			•									 	LOO.	LL	FER	E.—DIFFERENT FOODS:	E.

Chapter V. - Rural Health

The objectives of rural health are:

- (1) Raising the standards of environmental sanitation by the control of water supplies, installation of public baths and laundries, markets, slaughter houses, control of foodstuffs and flies and cleanliness of villages, encouragement of sanitation of village habitations by providing latrines, white washing of walls once a year and improvement of light and ventilation.
- (2) Protection against infectious diseases by anti small pox vaccination of infants and their inoculation against Diphtheria and other infectionus diseases, and the detection and control of infectious diseases.
- (3) Providing treatment facilities, particularly for parasitic diseases, ophthalmias, diseases of mal nutrition as well as medical care of casualty and emergency cases.
- (4) Providing the rural population with social health services including maternal and child welfare, control of venereal diseases and undertaking health education.

The Rural Health Section supervises the actitivities of rural health centres. Gratifying results have been achieved by these centres as may be evidenced by the following statistical data. The general and infantile death rates have dropped during late years in the areas served by these centres. The former was 14 per 1000 in 1950 as against 20 in 1949. The infantile mortality rate was 139 per 1000 births as against 184 in 1949. On the other hand, attendance at the out patient and in patient departments as well as the child welfare units has greatly increased. A mass treatment campaign against parasites has been organized by the Ministry within kaliubia Province. Table No. 30 gives details of the activities of Health centres during 1951.

Much of the difficulties that impeded the progress of health centres have been overcome, particularly the provision of medical officers and other personnel without whom nothing can be done. The responsibilities of the Rural Health Department increase year after year as a result of the policy of generalising health centres and increasing in-patient sections therein. The following table No. 22 demonstrates this increase:

	Yea	r		Population served by the H. centres.	Endemio diseases sections	No. of centres in operation	Child welfare sections	In-patient Sections	Out patients
1945		• • •		684,343	85	85	65	12	416,195
1946		• • •		1,141,441	103	103	82	27	490,117
1947			•••	2,132,202	115	115	92	71	473,381
1948	• • •			2,610,928	129	129	123	84	587,819
1949				3,037,837	157	157	123	88	836,119
1950				3,267,399	178	178	124	98	1,253,999
1951		• • •	• • •	3,814,543	205	198	149	110	1,122,897

TABLE No. 23.—BIRTHS AND DEATHS IN AREAS SERVED BY HEALTH CENTRES.

				Population	T) (1	D (1-	Inf.	R	ate per thous	and
	Yea	r		served	Births	Deaths	Deaths	Births	Deaths	Inf. Deaths
1948 1949 1950 1951	• • •	•••	• • • •	2,610,928 3,037,837 3,267,399 3,814,543	110,552 118,091 154,597 151,367	50,960 56,933 58,561 68,748	28,647 30,322 21,116 19,420	42 39 37 29.6	20 20 18 18	189 184 136 128

From this table it will be observed that the general and infantile death rates have decreased than what they were five years ago, despite the more accurate reporting of deaths and the increased sanitary supervision of births and deaths.

Table No. 24.—Is a statement of the incidence of infectious diseases during the last five years in the areas served by Health Centres:

	Yea	r		Plague	Typhus	Relap. fever	Typhoid	Cholera	Small Pox	Other diseases
1948	•••	•••	• • •	*******	25	4	118	1	21.	2,662
1949	•••	• • •	• • •		87	186	244		44	2,948
1950	•••	• • •	•••		26	2	217		23	10,253
1951	•••	•••			37		197		38	1,720

Food Control:

Of 5,508 specimens taken for analysis, 174 were found adulterated or a ratio of 4.1%.

Treatment:

TABLE No. 25.—Is a statment of treatment activities in Health Centres

	Y	Zear			New Patients	New Ophthal- mic Patients	Average No. of Patients per Centre	Average No. o opthalmic Pats per Centre
1948	• • •			• • •	587,819	72,066	4,557	555
1949	•••	•••		• • •	836,119	106,270	. 5,325	675
1950	· • •	• • •	•••	•••	1,253,999	130,047	7,045	731
1931	•••	•••	• • •		1,122,897	133,697	5,665	670

This shows that the number of patients served by the centres as well as the average attendance per centre have been increasing year after year.

Endemic Diseases:

Table No. 26.—Number of new out-patients and those examined for endemic Diseases.

Year	New out patients	Out-patients exa- mined for endemic diseases and rates
1948	587,819	277,285 47%
1949	836,119	419,463 50%
1950	1,253,999	742,120 59%
1951	1,122 897	680,693 61%

This table shows that 61% of the new outpatients in 1951 were examined for endemic diseases as against 45% in 1949. It is anticipated that the time is not too far distant when all the outpatients could be examined for endemic diseases.

Table No. 27.—Incidence and Treatment of Bilhar lasis

			}	Number	Positiv	e cases	Number	Number of giv	Injections en
	Yea	<i>T</i>		examined	Number	Rate per cent	eommenced treatment	Total	Average per Patient
1948	• • •	•••		277,285	137,034	60.3%	102,806	716,897	7
1949		• • •	• • •	419,463	337,372	56.8%	171,018	1,622,717	9
1950	•••			742,120	396,973	53.5%	249,575	2,249,162	9
1951			•••	680,693	331,657	48.7%	297,241	2,081,950	7

This shows that 48.7% of patients examined for endemic diseases during 1951 suffered from Bilharzia, as compared with 56.8% in 1949 and 60.3% in 1948. The decrease in bilharzia incidence was accompanied by a more regular attendance for treatment. The average number of injections per patient during 1949 and 1950 was 9 as against 7 in 1948.

TABLE No. 28.—CHILD WELFARE ACTIVITIES DURING THE LAST FOUR YEARS.

Year	New Pregnants	Average number of Preg. per centre	Number of New and old Pregnants	Average attendance per preg.	Home visits to Pregnants	Average home visit per pregn.
1948	30,738	304	106,110	3 times	40,036	1.3 times
1949	38,055	346	164,051	4.5 ,,	691.89	2 ,,
1950	44,061	376	221,816	5 "	86,656	2 ,
1951	49,523	345	221,472	4.5 ,,	~90,623	2 ,

This shows that pregnant's attendance at the centres is more frequent than before. being five times in 1950 as against 4.5 in 1949 and 3 times in 1948.

Table No. 29.—Confinements and Home visits to Puerperals

	Уеа	r		Number of Child Welf. Units	Number of Confinements	Average Confinements per centre	Number of Home visits to Puerperals	Average visits per puerperal
1948	• • •		• • •	101	31,812	315	174 629	5.5 time
1949		•••	• • •	110	43,404	395	229,606	5.2 ,,
1950	• • •		• • •	117	46 607	400	271,701	6 ,,
1951	• • • •	•••	• • • ;	149	51,812	332	290,241	5.6 "

Environmental Sanitation:

The Sanitation Section carried out the following works during 1951:

- (1) Bore hole latrines: 9,882 latrines were bored in 10 villages.
- (2) Scavenging: Scavenging of roads was undertaken in 7 villages in Giza and Dakahlia Provinces. Refuse was disposed of by incineration,

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-	- J	3àaU	100 41 100 8 1 100 8 1 100 8 1	081	
atrol	nples and Results	adulterat	4474597581 1080 1081 1081	174	
Food Control	Samples Resul	Eit	169 459 64 64 64 64 152 152 152 175 175 175 175 175 175 175 175 175 175	4,154	
	səmit 10		1,389 1,389 1,389 1,196 283 361 418 43 216 65 65	8,617	
	Diseases	Other	88888888888888888888888888888888888888	2,4	<i>:</i> ·
	dguoD gn	iqoodW	25.66 1 - 1 - 25.86 1 - 1 - 1 - 25.86 1 - 1 - 1 - 25.86 1 - 1 - 25.86 1 - 1 - 25.86 1 - 25.	394	
Cases of Infectious Diseases	theria	Diph	2511711 798 2773	102	
ious D	səjse	Me	155 1125 1135 1135 114 127 127 127 127 127 127 127 127 127 127	689	
Infect	.S.F.	0	H 04H	20	
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eđ	3rd	Shot	H 014H HH	7,00%	
Diphtheria	2nd	Shot		19,495	
	lst	Shot	1,838 2,651 1,045 1,029 6,325 1,924 1,975 1,975 1,975 1,975 1,975	×3, ×33	
4 su	instion agai xod .m2	оовV	6,784 8,510 8,510 16,960 9,244 17.295 12.727 9,927 10,348 9,326 5,816 2,881	156,555	
	Deaths	[stoT		68, 748	18%
Deaths	ts pelow		252 251 252 252 253 253 253 253 253 253 253 253	19,420	128%
	reeks			4, 300	%18
hs	Still	Birdes	26 26 27 28 28 28 28 28 28 28 28 28 28	543	3.6%
Births	Total No. of	Births	0.000000000000000000000000000000000000	151,367	29.6%
	Population of Area			6,614,545	
	Province		Kaliubia Menoufia Behera Gharbia Fouadia Dakahlia Sharkia Gfza Hayoum Minia Minia Assiut Gerga Qena Aswan	LOTAL	RATE

beid

Improved Deliveries 9 | 5 | 10 2 | 10 2 | 6 173 Cured 2000141755 26 E anoissimbA Died 83 Surg. Operations Improved 1,030 Cured 6 4 5 **enoissimbA** Died In. Patients F, 425 116 158 67 67 50 50 270 270 75 75 116 121 Internal diseases Improved 677 244 269 269 325 642 642 173 328 642 173 173 139 139 139 在公司. 793 392 337 667 172 550 686 778 138 444 600 64 139 057 anoissimbA Died E48 121 129 84 84 233 228 63 106 30 169 169 Improved of Patients 6,750 881 403 366 553 162 162 162 124 446 241 64 139 Cured No. 1,003 1,533 1,533 1,533 170 170 356 154 8,308 317 64 139 sqoissimbA 1,385 2,050 1,178 1,178 1,372 1,692 1,322 1,322 1,322 1,592 1,322 1,692 1,322 1,592 1,450 450 19,256 operations Total No. of 3,831 18,472 18,472 20,756 15,007 20,542 14,275 19,340 9,512 11,962 11,962 10,709 10,709 202,045 of ophth. Cases Old 111,570 21,508 111,865 7,355 9,779 11,079 11,079 10,289 7,602 6,332 6,508 6,508 133,697 New No. 46,164 78,172 171,330 98,433 51,628 174,338 123,841 24,803 10,146 15,810 60,561 84,325 52,164 9,791 1,008,258 of Out Patients Old 133,395 130,786 105,446 128,153 38,373 147,148 132,120 87,065 35,956 25,757 73,598 90,464 72,682 39,159 16,255 1,122,897 New No. 4,565 43,073 1,590 3,170 6,509 4,275 11,635 11,635 Public Baths and Vaing laundries ... 367, 143 106, laundries 12,550 13,751 20,691 32,162 48,248 63,122 18,347 24,873 12,474 9,096 25,451 48,151 11,297 Using baths TOTAL ... RATE • ... Province Beni Suef Fayoum Menoufia Dakahlia Sharkia Kaliubia Fouadia Gharbia Behera Assint Aswan Gerga Gîza Qena

TABLE NO. 30.—STATEMENT OF ACTIVITIES OF RURAL HEALTH CENTRES (continued)

ENDEMIC DISEASES

		_																
No. of Cases of Pellagra		Treated	1	1 755	757	293	170	211	120	100	23	247	231	9 1	0 1		4,135	
No. of Pe		Diag: nosed	7	140	710	293	170	237	122	4 CC	23	247	242	9 1	0		4,493	
		Cured	, c	4,510	4 853	0,723	5,243	1,122	7,969	2,450	1,216	3,340	2,905	4,077	1,500		1,098	%08
ies ses	No. of	Exam. after treat.	1	0,040 00.00	5,00±	13,596 1	6,187	14,220	7,274	2,785	1,569	4,558	3,248	5,237	2,040		88,870 71,098	
No. of Bilharzial Cases		No. of inj.		775		,672		268,440	5 1189,440	76.774	52,291	899	63,300	,145	15.748		2,081,950	
No. of Bi	-	Positive			22,311			41,284	33,086 23,435	11,765	9,116				2,580	`	331,657	48.7%
	No. of	specimens of Urine Exam.	i i	71 145	50.813	34,289	40,131	71,943	52,092	23,125	16.432	47,487	38, 181	52,425	7.967		680,693	
itery	No. of	Cases	6	73	229	211	48	122	69	222	56	74	94	108	196		1,397	83.6%
of Dysentery	No. of	Exam. after treat.	1	100	338	332	56	122	69	22	29	80	76,	711	216		1,671	
No. of Cases	No. of	Injec- tions	700	1 080	3,791	6,212	1,516	1,052	707	151	265	751	683	2/2	1,161		19,441	
No.		Positive		204	885	246	105	208	204		40			000	C./		3,082	0.5%
,	No. of	Carea	207	7,135	1,851	10,079	3,601	5,875	.V F-	655			1,454				38, 288	84.8% 0.5%
	No. of Cases	Exam. after treat	360	7,025	3,448	10,837	3,822	7,369	3,140	832	969	541	1,477	066	1,140		44,305	
ites	No. of	Cases							18,047			4,164	3,535 400,000	9,440	600,00		187,198	
Number of Casos of Intestinal Parasites	•	Intestinal	102	52, 631	37,288	14,716	29,220	25,345	19.557	2,908	5,206	6,862	4,168	5, 501	200		265,949	46.8%
ases of Inte	Cases.	Other- Parasites	0000	3,422	4,793	2,653	36,250	2,881	3,030	7,313	1,149	1,995	1,168	914 686	45		67,612	12%
umber of C	Positiva	Ascaris	210	49.084	37,392	12,464	18,712	21,068	7.420	350	494	1,784	401	2,131	3		191,152	33.6%
Ä		Ancylos- toma	- 10	8,491	6,378	2,203	10,198	5,750	8,644	686	3,380		5, 538 793	4 748			72,997	12.8%
	No. of	faecal Exam.	- I-	69, 157	46,967	59,315	37,550	62,940	36,826	21,100	14,596	26,645	36,100	90,100	4,822		567,817	
				• •	0 0	:	0 0	* * * * * * * * * * * * * * * * * * * *					*	•	:		*	•
0				•			* * *	*	2 P	9	* *	P Ω Φ	4 2 0	•			:	RATE
Province						*	**	E I	! :	ret	a	:	:	• •			Total	RAT
Pr			o id will o	Menonfia	Behera	Gharbis	Foundis	Dakanna	Giza	Beni Suef	Fayoum	Linia	Carre	Oens	Asken			
			<u> </u>	13	M	O	F4 F	10	2 (3	to	PER P	4	4 6	, 0	44			u

Table No. 30.—Statement of Activities of Rural Health Centres (continued)

The same statement of		+ ve	for Sugar		1	1		ł	1		7		- I	(1		00)		
	Analysis	r alb.	Bilharzia —70		153	2,086	117		2,007	73	· ·	2,707	027		က		10.501			
	Urine An	+ve for alb.	Bilharzia +ve		266	670	225	81	138		08	291		43		2	2,435			
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Samples		30,891	22,553	23,080	5,737	25,773 14,893	24,154	11,018	8,681	12,071	0 7,072	1,068	7,100	219,480			
		Shots	Bism.		2,987	1,528	2,162		1,346	3,222	54	<u>م</u>	3,135	560	35		21.698			
		No. of	Arsenic		10,357	3,723	6,894	2,378	0,439	6,966	3,710	2,220	5,439	3,529	40		61,474			
WELFARE		ment	Children	l l	1,357	311	9	26	∞ œ	87	28	01	10				1,893			
CHILD WEI	Treatment	leted Treatment	Husb.	•	13	o m		o o	63	. 12	∞ •	က <u>ထ</u>	64	i			199			
AND		Compl	Wives		255	440	110	34	11/	142	27	30	177	25	12		1,926			
MATERNAL	test and anti Syphilitic	ent	Children		258	140	22	19	11 17	901	94	. 140	24				1,265			
MA		Treatment	Husb.		35	4. c.	12	<u>ග</u>	£ 23	14	21	00 eg	61	22	1 1		209		١	
	Wassermann	Began	Wives		502	440 152	505		357 165	319	206	1,109	2,452	256	12		6,934			
			Spoiled		163	124	331	159	212	147	516	350	356	312	107		3,647			
			Positive		91	172	343	65	378	122	221	208	408	632	 15 23 23 23		3,417			
		N. of	Blood		5,864	0,408	6,786	1,640	5,363 3,823	4,910	2,169	471	2,564	1,213	429 137		48,706			
	nants		Old		21,232	17,561	15,940	6,578	10.554	17,648	9,415	17,743	8,601	3,233	600 868		171,949			
	Pregnants		New		5,452	6,494 2,443	6,217	1,417	4,617		1,988	1,959	2,319	753	210		49,523			
								:	*		:	:		:			:		:	
	Province				Kaliubia	Menouna Rehera	Gharbia	Fouadia	Dakanlia Sharkia			Fayoum			Vena		TOTAL		RATE	

Table No. 30.—Statement of Activities of Rural Health Centres (continued)

				تن <u>ن</u>	0	95	7 G	50	ω r-	, io	9 7	7			\			
	ectures	B	staff	3,405	2,13	4,13	1, 82 87, 83	1,20	2,22	1,55	2,366	1,077	- 1	262	28.644			
	No. of Lectures	By	M. Os.	596	503	1,055	386	137	23 20 20 20 20 20 20	294	371	114		5	9			
	letters centre)	To	Mothers & Child	3,537	2,736	2,239	3,424	808	1,128	441	577	239	. 1	081	6.0),))))		
	Invitation letters (to Visit centre)	T.	Prognants	2,019	986	478	405 802	682	 G_ %	583	186	157		25 26 27	296 8	~		
	·	Children	Regular Visits	7,166	2,347	17,175	5,461 8,465	2,841	4,015	1,656	7,010	1,184	72	7.67	67.154	_		
		To Chi	Non Attendants	6,108	4,714	21,321	6,258	6,269	2,423	1,226	9,914	1,575	197	733	88.413	~		The state of the s
WELFARE	Home Visits	During		23,346	18,965	31,100	15,240 44,130	24,785	25,867	12,448	17,119	6.703	3,300	1,138	290 241			
CHILD W	H	latal	During 9th month	5,892	2,839	8,540	2,344	3,889	4,727	1,528	2,843	702	144	S.,	629			
AND		Antenatal	Total No.	4,428	1,818	5,648	2,154	2,967	3,811	981		1,225	^	ි රි	. 96			
MATERNAL		Diphth.	immunisa- tion	1,514	1,223	4,217	1,401	1,035	1.598	914	9,941	1,201		103	22, 119	t		
A	Welfare) }	vaccination	2,937	4,198	5,777	6 294	3,695	4,326	1,828	2,433	2,050	372	162	42 726			
	Child V			24	216	117	39			17	56	BT -	1	27	981	^		
		M. O. F.	Children	51,271	40,259	45,023	31,075	36,948	62,321 20,605	15,795	29,144	7.025	879	5,585	468 984			
		from	outside	16	107	12	100		29	20	16	204	1	ဘ	429	i		
	Deliveries	In Dt		238	1,119	976	821	1,169	1,102	299	114	562	162	96	12,487			-
	No. of Deli	Completed	Jo	999	330	919	1.064	922	773	304	528	237	16	77	7.413	`		
		Total	Н	3,957	3,199	5,331	3,160	4,654	2,546	2,159	2,812	1,154	540	1.18	8			
				•		:	•				•	• • •	**	•			*	
	Province			•	• • •			•	•	• •	•		•		Total		RATE	
	Pro			Kaliubia	Behera	Gharbia	ronadia Dakahlia	Sharkia	Giza Beni Suef	Fayoum	Minia	Gerga		Aswan	F-1			

Chapter VI-Quarantine

Since last war, the Quarantine Administration's work has been continuously increasing, in view of the increased volume of maritime and aerial navigation.

As provided for in Article 48 of the Quarantine Regulations, all vessels arriving at Egyptian ports must, before communicating with the shore, be medically inspected (Reconnaissance).

Vessels arriving from infected ports are subjected to a detailed medical inspection (Arraisonement).

The Quarantine Administration also takes the necessary measures to control aircraft and passengers arriving from abroad to prevent the penetration of any quarantinable or infectious diseases. The measures taken and restrictions imposed on infected areas in foreign countries are carried out by this administration in the light of notifications reported in the bulletins arriving regularly from the Regional Office for the Eastern Mediterranean, Singapore, Washington and Geneva stations.

All decisions taken by the direction of the administration concerning the infected localities are duly notified to the above stations as well as all authorities concerned.

As regards Egyptian Ports, no cases of infectious diseases were reported, this year, other than one case of smallpox at Suez and four cases of typhus at Alexandria, and consequently no measures were taken by foreign countries against passengers and Egyptian exports.

The following tables show the details of quarantine works during the year 1951:

- (1) Quarantinable diseases reported in the Egyptian ports during 1951 (Table No. 31).
- (2) List of localities declared infected during the year by the Quarantine Authorities (Table No. 32).
- (3) List of localities declared clean during the year by the Quarantine Authorities (Table No. 33).
 - (4) Number of vessels subjected to simple medical inspection (Table No. 34).
 - (5) Number of vessels subjected to detailed medical inspection (Table No. 35).
 - (6) Cases of diseases found on vessels on arrival at Egyptian ports (Table No. 36).
 - (7) Vaccinations carried out on board vessels in Egyptian ports (Table No. 37).
 - (8) Control of passengers (Table No. 38).
 - (9) (a) Aircraft dealt with during 1951.
 - (b) Passengers landing and departing by aircraft during 1951 (Table No. 39).
 - (10) Anti plague work (Table No. 40).
 - (a) Number of rats and soory caught, destroyed, and examined in the ports.
 - (b) Number of rats and soory caught, destroyed, and examined on vessels.
 - (11) Fleas found on rats caught (Table No. 41).
 - (12) Vessels deratised or exempted (Table No. 42).
 - (13) Disinfection by chemical means (Table No. 43).
 - (14) Control of water distribution to vessels in ports (Table No. 44).
 - (15) Control of goods under Quarantine supervision (Table No. 45).

Attached herewith is a separate statement of the pilgrim season of the year 1951, and the measures taken at Tor lazaret.

TABLE No. 31.—QUARANTINABLE DISEASES REPORTED IN THE EGYPTIAN PORTS DURING THE YEAR 1951

The sanitary situation in the ports was satisfactory throughout the year as it appears from the following table:

Port			Pla	gue	Che	Olera	Small	-pox	Ту	phus
1010			Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Dearns
		· · · · · · · · · · · · · · · · · · ·								
Alexandria	• • •	0 * *			—.				4	
Port-Said	• • •	• • •	orientino		-					
Suez	***	• • •		_	tires.		1		-	
Cairo	* * *	• • •						_		abativ
Luxor		• • •	Фатинарта		Salmontegatings		_		www.com	
						<u> </u>				

Other Ports: Tor, Abu Zenima, Safaga, Hurghada, Shellal, Kantara, Ras Ghareb, Rosetta, Abu Kir, Mersa Matrouh, Sollum: NIL

TABLE No. 32.—LOCALITIES DECLARED INFECTED DURING THE YEAR 1951

Date	Disease	Name of locality
1		
2- 2-1951	Small pox	United Kingdom: Brighton.
20- 2-1951	Plague	TT O A T O
6- 3-1951	Small pox	T 7 · TO · · TO I ·
21- 3-1951	,,	70 17 7 70
29- 3-1951	Plague	Union of South Africa: Koppies.
31- 3-1951	Small pox	Japan: Kobe.
31- 3-1951		Ceylon: Uva Province.
31- 3-1951	Plague	
9- 5-1951	Small pox	Ceylon: Wesern Province.
9- 5-1951	,,,	
9- 5-1951	Plague	Union of South Africa: Orange Free State (Municipal Area of,
10 7 1071	G 11	Kroonstadt).
16- 5-1951		Holland: Tillburg.
16- 5-1951	Plague	Indonesia: Timbang, Bangkalan Regency (Madura Island).
17- 5-1951	Small pox	Ceylon: Central Province.
20- 5-1951	Typhus	Federation of Malayo: Whole Territory.
21- 6-1951 25- 7-1951	Small pox	French Fstab. in India: Pondicherry Dept. and Karikal.
25- 7-1951	,,	Ceylon: Pepiliyana (Western Prov.) Warakapola in Sabaragamuwai Viet-Nm: Whole terr-itory.
31- 7-1951	,,	Indonesia: Makasar.
31- 7-1951		U.S.A.: Lincoln County in Washington State.
26- 8-1951		Brazil: Ceara & Pernambuco States.
26- 8-1951		Yemen: Whole Territory.
8- 9-1951		Ceylon: Dualagala & Gampola.
8- 9-1951		Venezuela: Miranda State.
19- 9-1951	,,	Union of South Africa · Cap · Province (Berkley West District.).
19- 9-1951	Cholera	French Estab. in India: Yanon.
8-10-1951		Ceylon: Gampaha (West. Province).
8-10-1951	Yellow Fever.	Costa Rica: (Cent. America).
16-10-1951	Small pox	
25-10-1951	Plague	
10–12–1951	,,	
15-12-1951	,,	Tang nyika: Tanga Province.
15-12-1951	,,	Unin for the Arm: Orange Free State (Bothaville).
20-12-1951		Ceyo: Tincome le « Valvettituria Dist.
30–12–1951	,,	Braz': Bahia State.

Table No. 33.—Localities Declared Clean from Infection during the Year 1951

Date	Disease	Name of Locality
20- 1-1951	Small pox	Indonesia: Samarinda, Borneo Island.
20- 1-1951	,,	Syria.
5- 2-1951	Plague	Union of South Africa: (Orange Free State), Bloemfontein, Dewets-
	4	dorp, Thaba N'chu and Luck-off Dist.
	•	(Transvaal) Roodport — Jahannesburg and Krugersdorp districts. (Cape Province) Lady Gray, Aliwal North, Queenstown and Sterks-
		troom districts.
6- 3-1951	Plague	Kenya: Bassoutoland, Mobassa, Nairobi (Rift Valley Province).
6- 3-1951	Plague \dots \dots	French West Africa: Dakar.
6- 3-1951	,,	South West Africa: Whole territory.
6- 3-1951	,,	Northern Rhodesia: Baraotse Province.
6- 3-1951	,,	Tanganyika: Whole Territory.
6- 3-1951	,,	
6- 3-1951	,,	
6- 3-1951	,,	
6- 3-1951	,,	Azores Islands. Hawaii Islands: Makawa District (Maui Island).
6- 3-1951 6- 3-1951	,,	U.S.A.: Arizona State, Oklahoma State: (Texas county), Kansas
0- 0-1901	,,	State (Rawlines county), Washington State: (Kittitas county,
		Lincolns county, Douglas County, Grant county).
6- 3-1951		Peru: Lambayeque Dept. (Monsefu, Chiclayo Prov. Trujillo District,
	//	La Libertad Province) Piura Dept. : Ayabaca Province ; Cajamarca
,		Dept.: Chota Province; Huancabamba Province.
6- 3-1951	Cholera	French Estab. in India.: Chandernagor.
6- 3-1951	1	Uganda: Whole country.
6- 3-1951	Typhus	Sierra Leone: Whole country.
6- 3-1951	Cmall nor	Colombia: Whole country.
16- 4-1951	Small pox	Japan : Kobe. Ceylon : Uva Province.
27- 5-1951 20- 6-1951		Indonesia: Java (Panarukan, Pasuruan); Sumatra (Tapanocli Area,
20- 0-1301	,,	Palembang Res. Medan Sibolga).
20- 6-1951	,,	Ceylon: Central Province.
20- 6-1951	,,	Angenting Whole Territory
20- 6-1951	,,	Thailand: Bangkok.
20- 6-1951	,,	
20- 6-1951	,,	Mexico: Whole territory.
20- 6-1951	,,	Peru: Whole territory. Chili: Whole territory.
20- 6-1951 20- 6-1951	m	D. Listan . Whole Truitery
20- 6-1951		Union of South Africa: Cape Province (Beaufort) West. District.
20 0 1001		Orange Free State (Faursmith District).
20- 6-1951	. ,,	Brazil: Bahia State, Ceara State, Pernambuco State.
20- 6-1951	,,	Peru: Lima Province, Chancy District.
20- 6-1951		Portuguese India: Whole territory.
20- 6-1951	1	Peru: Whole territory.
14- 7-1951	Plague	Union of South Africa: Orange Free State (Municipal Area of, Kroonstad).
25- 7-1951	Small now	Holland: Tillburg.
5- 8-1951	Small pox Plague	Union of South Africa: Orange Free State, (Koppies District).
16- 8-1951	Small pox	1 7 7 1 1 1 Colombian & Develope in West and
		Province.
29- 8-1951	Typhus	Federation of Malaya
8-10-1951	Plague	Union of South Africa: Catheart.
8-10-1951	-	Union of South Africa: Gampola.
31–10–1951	Plague	77
31-10-1951	Small pox	Ceylon: Talatuoya, Daulagala.
31–10–1951 10–12–1951		Brazil: Alagoas, Ceara and Pernambuco States.
10-12-1301	1 10500	
	1	

Table No. 34.— Statement of All Ships Arriving During the Year 1951 Simple Medical Inspection

	Port	,	Cargo	Passenger vessels	Passenger and cargo	Sailing Vessels and Launches	Tankers	Various	TOTAL
Alexandria Port Said Suez Tor Kosseir Damietta Rosetta Hurghada Safaga Kantara Sollum Ismailia Abu Zenima Mersa Matri Rås Ghareb Abukir Borollos Shellal	uh		946 3,178 519 — 16 — 11 17 — — 14 — 95 — 95	369 486 21 — — — — — — — — — — — — — — — — — —	96 -49 5 199 81	184 510 463 177 121 159 86 24 35 — — 102 8 10 12 1 547	5 3179 520 - 5 - 23 - - - - - - - - -	291 2 ——————————————————————————————————	1,600 7,644 1,574 182 142 159 86 58 52 — — — — — — — 116 8 304 12 1 596

Table No. 35.—Statement of All Ships Arriving During the Year 1951

Detailed Medical Inspection

	Port		Cargo	Passenger vessels	Passenger and cargo	Sailing Vessels and Launches	Tankers	. Various	Total
Alexandria Port Said Suez Tor Kosseir Damietta Rosetta Hurghada Safaga Kantara Sollum Ismailia Abu Zenima Mersa Matr Ras Ghareb	uh		752 1,812 1,889 - 43 - 1 8 15 - 1	109 389 266 ——————————————————————————————————	494 4 	78 102 122 35 5 5 - - - 14 - - -	22 2,304 3,062	173 89	961 4,7 0 5,922 39 48 5 - 38 22 - - 15

.

TABLE No. 36.—QUARANTINABLE AND INFECTIOUS DISEASES FOUND ON BOARD VESSELS

Alexandria	Nil.			
21.4CM/1001.4Cm				
Port Said	(a) Qua	arantinable Diseases:	One case of small	pox isolated.
		ectious diseases: 32 case ollowing diseases:	s on 22 vessels	including the
	1	Chicken Pox		
	1	Malaria		
	5	Pneumonia		
	7	Tuberculosis of Lungs	,	
	2	Typhoid		
	1	Influenza		
	1	Cerebro Spinal fever		
	1	Dysentery		
	4	Bronchitis		
	1	Tonsilitis		
	1	Colitis		
	1	Colic	, 1	
	1	Hernia		
]	Gastritis		
	1	Abscess		
	1	Uremia		
	1	•		
	1	Enteritis		
	32	TOTAL		
				
Suez ····	(a) Qu	arantinable Diseases:	One case of small	pox iscolated
		from the vessel "Paste	em''	
	(b) Inf	ectious Diseases: 839 ca	ses on 118 vessels	. including
		e following diseases:		,
•	94	Dysentery		
	176			
	17			
	49			
	221			
	180			
	23			
	11			
	18			
	19			
]			
	2			
		l Poliomyelitis		
		2 Diphtheria		
		2 Scarlet Fever		
		3 Tonsilitis		

839 TOTAL

TABLE No. 37.—VACCINATION CARRIED OUT ON BOARD VESSELS

Suez:

- 5 Passengers arriving on the vessel "Helini" from Port Sudan, were vaccinated against Smallpox.
- 4081 Passengers and crews on the vessel "Pasteni" from Colombo, were vaccinated against smallpox. (One case of suspected smallpox was isolated).

4086 TOTAL

TABLE No. 38.—Control of Passengers

Port	,	I and II Class	III and IV Class	Total
		A. (LANDING)		
Alexandria		21,455	16,330	37,785
Port Said	•••	13,760	37,373	51,133
Suez	•••	3,781	2,839	6,620
Tor			28,057 (¹)	28,057 (1)
Kantara	•••	2,760 (3)	1,050 (2)	3,810
Ras Ghareb	•••	659	576	1,235
Shellal	•••		23,332	23,332
	7	B. (Embarking)		
Alexand ria		18,398	14,181	32,579
Port-Said	••• •••	17,682	26,387	44,069
Suez	•••	1,241	3,073	. 4,314
Kantara		4,282 (3)	-	2,482
Tor			28,040	28,040 (1)
Ras Ghareb	•••	473	539 -	1,012
Shellal		garage Car	17,642	17,642
Damietta		000 - 0	5	5

⁽¹⁾ Pilgrims

⁽²⁾ Caravans

⁽³⁾ By train

TABLE No. 39: (A).—AIRCRAFT DEALT WITH DURING THE YEAR 1951

Name of Airport	Landing	Departing	Airoraft disinsectised	
CAIRO :			•	
Cairo	7,634	7,644	2,353	
Almaza	1,946	1,968	401	
Luxor	269	269	255	
ALEXANDRIA:				
Alexandria	418	418	17	
Mersa Matrouh	15	15	-	
Port Said	. 68	59	6	
Tor	. —	_	_	
Fayed	2,488	2,378	- 707	
1				

(B).—Passengers Landing and departing by Aircraft during the year 1951

Name of Airpo	Name of Airport		Landing	Departing	Transit	Isolated	Remarks
Cairo	•••	•••	29,940	35,398	133,132	404	(Not in possession of anti-cholera or anti-yellow fever certificates.
Almaza	•••	•••	16,885	21,138	3,049	81	ditto
Luxor	•••	•••	252	111	3,241	8	Not in possession of stool examination and anti-yellow fever certificates
Alexandria		•••	3,830	3,698	614	GARDA-QUID	
Mersa Matrouh	***	•••	2	2	8	-	
Port Said	•••	•••	148	111	6		
Shellal	•••	• • •	23,332	17,642	_	96	In possession of anti cholera certificates but incubation period not expired.
Fayed	•••	• • •	261	1,847	1,041	·*	

TABLE No. 40. —Number of rats and soory caught, destroyed and examined in Egyptian ports During 1951,

Number and species of rats caught							Alexandria	Port Said	Suez		
R. Norvegicus	•••	•••	•••	•••	e-4 o	··· Town .	• • • • •	• • •	4,297 12	7,918 385	2,445 105
R. Rattus	•••	•••	•••	•••	•••	{ Town	• • • • • •	• • •	7,049 1,991	67 220	3 13
Acomys C.	•••	•••	•••	•••	•••	··· Town ·· Port	• • • • •	• • •	3,124 245		957 202
Soory	•••	•••	•••	•••	• • •	\ Town\ Port	•••	•••		1,244 1,620	917 802
,						Тота	AL	•••	16,718	11,454	5,444

Rats Destroyed by Traps and Poison (Alexandria Port): - 13,645

Rats found dead without using any means:

979 R. Norvegicus

1,031 R. Rattus

47 Acomys

1,016 Soory

Number of rats caught, destroyed and examined on vessels.

	Number and species of rats caught	Alexandria	Port Said	Suez
1.	Rats Trapped:			
	R. Norvegicus	2	_	_
	R. Rattus	279		
2.	Rats destroyed by (Traps and poison):			
	(a) Rats found dead after fumigation R. Rattus	399	<u>-</u>	51
	(b) Rats found dead without using any means			_
	(c) Rats destroyed by hand		_	

TABLE No. 41.—FLEAS FOUND ON RATS CAUGHT

Fleas found on:	То	wa	Port	TOTAL					
	L.M.	L.M. X. Ch.		L.M. X.Ch.					
)					
	A.—Alexad	NDRIA .							
R. Norvegicus		_	_		_				
R. Rattus	450	884	50	34	1,634				
Acomys	-	-	_		_				
	D. Dane	G	1						
,	B.—Port	SAID							
R. Norvegious	106	736	33	258	1,133				
R. Rattus	5	163	13	177	358				
Acomys	-	-	-	- 1	-				
C .— $\mathbb{S}_{\mathbf{UEZ}}$									
R. Norvegicus	-			_					
R. Rattus	4	3946	_ 0-		3,950				
Acomys	-	-	- 1	_	-				

TABLE No. 42.

Port of		Vessels	Process of		
10100	Steamers Sailing		TOTAL	deratization	
(A) Vessels Deratised or Exempted				-	
Alexandria	5		5	1	
Port-Saïd	1	Statement's	1	Sulphur	
Suez	6	_	6		
(B) Vessels deratized by The Near East Chemical Industries, Ltd., under the supervision of the Quarantine Administration. Alexandria	302		30 — z	Cyanide	
(C) Certificates of Exemption from Deratization issued.				,	
Alexandria	48	18	66		
Port Saīd	73	41	114		
Suez	42	11	53		
Kossier		42	42		
Tor	-	43	43		
Damietta		32	32		

TABLE No. 43.—DISINFECTION BY CHEMICAL MEANS

	Alexandria	Port-Said	Sues	Shellal	Tor
Vessles disinfected					31
Barges and boats	137	_	246		
Ships carrying animals		2	51	_	
Cabins for animals	252	1	8		1
Number of stove fulls	_	23	gagaganeth	-	
Cabins occupied by sick		1	5		
Parcels disinfected without payment	 ·	11970,5 k			
Water Tanks	58	_	.190		_
Labour Disinfected	• 1915	_			
Cabins of vessels	192	-	_		
Railway wagons	1				
Yellow Fever Steamers	42		3,865	_	
Decks disinfected	25	_	_	_	_
Boxes for animals	26			_	
Effects of vessels	_	_	45	_	19
Quarantine Administration Effects		_	120	_	87
Effects by weight	_		35	_	- .
Effects of passengers	_		1,096		_
Effects of porters	_	_	169	-	
Miscellaneous	·		1,357		81
Vessels with sick on board			2	_	-
Effects of pilgrims	-			_	330
Launches and sailing vessels with sick on board	-	_	_ 8	-	-

TABLE No. 44.—CONTROL OF WATER DISTRIBUTION TO VESSELS IN PORTS

	Alexandria	Port-Said	Suez
Number of specimens taken from taps supplying the steamers	821	695	294
Number of specimens taken from taps supplying the water tanks	105	350	;);
Results of Bacter	riological Examina	ation.	

Specimens found fit for use:			
from taps supplying vessels	104	302	6
Specimens found unfit for use:			
from taps supplying vessels	61	393	108
Specimens found fit for use:			
from taps supplying water tanks	760	192	131
Specimens found unfit for use:			
from taps supplying water tanks	1	156	163
Specimens found fit from taps	wherefile	- '	98

Table No. 45.—Control of Goods Under Quarantine Supervision

						68 —						
Kantara	Export	1,900		1	1	5,460		1 .	1	1	134	1
Kar	Import	1	-	1		1		[1	Ì	1	1
Tor	Export	1,400	1	314	14		1	į	1		1	[
Ĭ	Import	1	1	1		1	. [1	1	-	gipo adira	
Shellal	Export	5,670.6	1		1	l	1		ı	ı	1	.
She	Import	6,773	1	675,394		2,213	1	, 1		1	1	1
	Transit	ı	1	32,373	1	202	1	1	1	61 Bales	1	-
Suez	Export	ı		[1			1	1	1	1	1
	Import	82,020	1,736	14,368		1	1	1	1	[ı	1
	Transit	25, 188 Bales	Boxes	29, 295 Bales	1	151 Bales	1	282 Bales	}	-	1	339
Port-Said	Export	2,161 Bales	6,237	9,900	Signal of the state of the stat	11,845	1	20,500	6,237	1,429	25,736	496
	Import	199,573	ı	33,814	1	1	515	1	ļ	258	3,072.5	25,495
	Transit	1,180		487	191	724	16	e de la companya de l		197	1,	1
Alexandria	Export	1,190,872	228,987	158,493	79,534	1,759,999	21,838		,	2,105,617		
	Import	101,426	10,248	245,588	-	101		1	1	1,668,245 22,105,617	1	·
Unit		Kilos	86		Pieces	Kilos	÷	•	~	, :	\$	•
		•	•	tc.)	Foat)	•	:	:	•	:	•	:
ele		•	0 0	alos e	and (•	, fing	Hoofs	Hair	•	:	88
Article		Wool	Salted Guts	Hides (Buffalos etc.)	Skins (Sheep and Goat)	Goat Hair	Animal Hair	Horns and Hoofs	Calcinated Hair	Rags	Hessian .	Used Clothes
	1	7	Sa	H	SZ.	G	Ar	Ħ	Ca	Ra	He	Us

PILGRIMAGE TO THE HEDJAZ

A notice published by the Quarantine Administration in the Official Journal, imposed as from July 11th, 1951, the usual sanitary provisions in respect of the control of pilgrims transiting Egyptian territory on their way to the Hedjaz. These provisions do not differ from those enforced in previous years, and provide for the vaccination of unpretected or insufficiently protected pilgrims, their surveillance, etc.

Measures for the control of returning pilgrims, as published in the Official Journal of 6th August 1951, were instituted after the completion of religious ceremonies and remained in force until the closure of Tor Camp and at the same time of the pilgrim season, on 27th October 1951.

OUTWARD JOURNEY.

A.—Egyptian Pilgrims.

Owing to rumours circulating about suspected cases of cholera in the Arabian Peninsula, the departure of Egyptian pilgrims was postponed until 17th August 1951, when it was ascertained that no case had been reported.

Vaccinations and Inoculations: Pilgrims were subjected, before departure, to inoculation against cholera and typhoid, and to vaccination against smallpox.

Transport of Pilgrims: The transport of Egyptian pilgrims to and from the Hedjaz was carried out by the "Misr Co. for Maritime Navigation" which assigned for this purpose the vessels "Misr" and "Sudan" and chartered the S.S. "Jehangir" and "Jaladurga" for the outward journey to Jeddah. The S.S. "Taif", "Talodi" and "Saqqara" belonging to the Khedivial Mail Company carried foreign pilgrims.

All these vessels were inspected by the Suez Quarantine Authorities and measured before being allowed to embark pilgrims; and after having ascertained that the accommodation and installations as laid down in the International Sanitary Convention of 1926 were existent, they were issued with certificates of measurement as follows:

Name of Vessel									Date	Class I	Class II	Twindecks
alodi, idan isr shangir iif ladurga	Sue .,,		•••	•••		• • •	•••	16 16 29	August 1951 ,, ,, September 51	26 58 54 18 24 14 22	20 117 117 - 20 32	603 1235 1235 981 603 1320 343

Table No. 46

A total of 18,346 Egyptian pilgrims left Suez for Jeddah during the period from 17th August to 17th September 1951, as against 23,283 pilgrims during the previous pilgrim season.

B.—Foreign Pilgrims.

Su

Tai Jal

Foreign pilgrims, who transit Egyptian territory on their way to the Hedjaz, generally consist of:

- (i) Those arriving at Port-Said on board pilgrim ships bound for Jeddah in transit through the Canal;
- (ii) Pilgrims arriving by train from Libya at Sollum, thence to Alexandria, and Suez for embarkation for Jeddah;
- (iii) Pilgrims arriving at Port-Said and Alexandria on ordinary vessels, thence proceed to Suez by land to embark for Jeddah.
- (iv) Pilgrims arriving through Kantara from the East and North East.

(i) Pilgrim ships transiting through the Canal.—6 pilgrim ships carrying 4,426 pilgrims arrived at Port-Said to proceed to Jeddah via the canal (as against 16 vessels carrying 10,036 pilgrims during the preceding pilgrim season); details of these steamers are:

Table No. 47

Name of Steamer	Date of arrival	Port of Departure	Net Tonnage	No. of Pilgrims
		1		
Izmir	24 August 1951	Lattaquia, Istambul	3,021	1,081
Blue Star	25 ,,	Tangiers, Ceuta	688	294
Providence	2 September	Casablanca, Algiers	6,693	1,318
El Rawdah	2 ,,	Algiers	2,157	721
Eleni	3 ,,	Tripoli, Benghazi	2,227	313
Charlton Sovereign	4 ,,	Oran, Algiers, Bona Tunis	1,677	699
7 - 6		Т	OTAL	4,426

The nationalities of the pilgrims on board were:—Afghani 1, Algerians 1,382, Saudis 2, Lebanese 2, Moroccans 1,051, Senegalese 333, Syrians 1,033, Tripolitans 262, Tunisians 266, Turks 43, Lybians 51.

All these vessels and the pilgrims on board were inspected on arrival at Port-Said. The measurements and sanitary installations were checked and some infringements were found:

- (ii) Pilgrims arriving by land route from the West.—734 pilgrims arrived at Sollum from the West on their way to the Hedjaz during the period 12th August 2nd September 1951 by bus and private cars.
- (iii) Pilgrims arriving at Alexandria by sea.—No pilgrims landed at Alexandria on ordinary vessels during the pilgrim season.
- (iv) 5 pilgrims arrived at Kantara by the Palestine Railway.—4 of these who were not vaccinated, were vaccinated against cholera and smallpox.

DEPARTURE OF PILGRIMS FROM SUEZ

A total of 19,788 pilgrims left Suez for Jeddah on board 20 vessels during the period 14th August-7th September 1951 as compared with 24,193 pilgrims during the last pilgrim season.

Table No. 48.—Details of Steamers

N. S. Charles	No.4 Tr	D / 6 3	N	umber of Pilgrim	S
Name of Steamer	Net Tonnage	Date of departure	Egyptians	Foreigners	TOTAL
Saqqara	1,613	14 August 1951	_	29	29
Sudan	5,029	17 "	1,375		1,375
Misr	5,050	18 "	1,393	_	1,393
Taif	784	19 "	_	26	26
Zamalek	929	21 "	_	15	15
Sudan	5,029	21 "	1,410		1,410
Misr	5,050	22 "	1,406		1,406
Sudan	5,029	25 "	1,410	_	1,410
Misr	5,050	27 "	1,406	_	1,406
Jehangir	2,057	29 "	999	-	999
Sudan	5,029	30 "	1,410	_	1,410
Misr	5,050	31 "	1,310	ones.	1,310
Jaladurga	3,958	2 September	1,249		1,249
Sudan	5,029	3 "	1,236	_	1,236
Wai Heng	1,218	3 "	-	681	681
Jehangir	2,057	4 "	999	_	999
Taif	770	4 "	20	523	543
Misr	5,050	5 " …	1,404		1,404
Saqqara	1,613	5 " …	30	151	181
Sudan	5,029	7 "	1,305	1	1,306
		TOTAL	18,362	1,426	19,788

The nationalities of the 1,42	26	fo	reign	ers	were	as	follov	vs:
Afghani	• •	•	* * *	* * *			à • •	1
Algerian			• • •	•••	•••	•••	• • •	362
Gold Coast		•	•••	•••	• • •	•••		2
Saudis	••	•	•••	•••	•••	•••	•••	22
Indians	••	•	•••	•••	0-0-0	•••	•••	2
Lebanese	••	•	***		•••	0-0 0	•••	4
Moroccans	0-0	•		•••	•••		•••	630
Spanish		•	•••	•••	•••	•••	•••	13
Palestinians	,		•••	•••	•••	•••	•••	4
Jordanians	• •	•	•••	•••	•••	•••	•••	3
Tripolitans	••	•	•••	•••	•••	•••	•••	25
Tunisians	• •	•	•••	•••	•••	•••	•••	348
French Som	ali		•••	•••	•••	•••	•••	1
Nigerians	••	•	***	0.0.0	0.00	+5:0		5
Pakistanis	• •	•	•••	•••	0.0.0	@1@-@		4
				192			-	4 490
				To	TAL	910 0	•••	1,426

BY AIR ROUTE

During the period 21st. August – 9th. September 1951, 69 aircrafts carried 2,148 pilgrims from Cairo aerodromes to the Hedjaz. The nationalities of these pilgrims Were as follows: Egyptians 1,988, Algerians 41, Saudis 81, Moroccans 23, Tunisians 7, Iraki 1, Pakistanis 2, South African 1, Americans 2, Indian 1, Philippino 1.

RETURN JOURNEY

Arafat Day (9 Zilhidje) fell on September 11, 1951. The first returning pilgrims arrived at Tor on 17th. September 1951. These were 159 pilgrims landed from four aircrafts. These were followed by five aircrafts on 19th. September, which landed 198 pilgrims. On the next day, i.e. 20th. September 1951, the first pilgrim ship, the S.S. "Providence" arrived at Tor carrying 1,353 Egyptians. The last pilgrims who left the camp were 746 pilgrims on the S.S. "Misr" on 26th. October 1951. The camp closed and the pilgrim season ended on 28th. October 1951. The season thus lasted 41 days.

During that period, 25 steamers earrying 25,432 pilgrims, and 81 aircrafts carrying 2,625 pilgrims, called at Tor, thus making a total of 28,057 pilgrims (as against 36,041 pilgrims during the last pilgrim season) consisting of 21,932 Egyptians and 6,125 foreigners.

From this number, 4,516 foreigners arrived on 7 vessels which were authorised to continue their voyage through the Suez Canal in quarantine, after a medical inspection had been carried out at the camp. The remaining pilgrims underwent a period of observation at the lazaret. This period lasted three days for pilgrims arriving on the first two vessels and about five days for pilgrims arriving on the first 14 aircrafts.

Subsequently, pilgrims arriving by sea were held under observation for 48 hours and those arriving by air, for three days.

Sanitary condition: No case of cholera or plague having been reported at the Hedjaz, and stool examination of the 2,248 pilgirms and 270 crew of the first two vessels arriving at Tor, and of the 522 pilgrims arriving in the first aircrafts having given negative results, and because clinical examination of the pilgrims proved satisfactory, the Egyptian Health Authority decided on 24th. September 1951 to apply the provisions of article 142 of the 1926 Convention to Tor Lazaret

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TABLE No. 49.—DETAILS OF STEAMERS WHICH LANDED PILGRIMS AT TOR STATION.

Name of Vessel	Net	Date of Arrival	Date of Departure	Destination	Num	ber of Pilg	rims
	Tonnage	1951	1951		Egypt.	Foreigners	TOTAL
Providence	6,693	20 Sept.	23 Sept.	Suez	1,352	. 1	1,353
Sudan I	5,029	22 ,,	23 "	>>	1,401	-	1,401
Misr I	5,051	24 ,,	27 "	>>	1,3 85		1,385
Sudan II	5,029	26 ,,	28 ,,	"	1,400		1,400
Akbar I	. 2,441	28 "	30 ,,	>>	1,371		1,371
Misr II	5,051	29 "	1 Oct.	>>	1,420	1	1,421
Alawi I	. 2,160	1 Oct.	3 "	>>	992		992
Akbar II	2,441	4 "	6 "	"	, 1, 3 80	1	1,381
Sudan III	. 5,029	5 ' ,,	7 "	>>	1,408		1,408
Talodi	. 784	7 ,,	9 ,,	>>	263	297	560
Misr III	. 5,051	7 ,,	9 ,,	"	1,416	1	1,417
Misr IV	. 5,051	11 "	13 "	>>	1,407	3	1,410
Sudan IV	. 5,029	15 ,,	17 "	,,	1,383		1,383
Misr V	. 5,051	18 "	20 ,,	>>	1,226	3	1,229
Taif	. 784	18 "	20 "	,,	148	254	402
Zamalik	. 929	6 ,,	8 "	,,		428	428
Sudan V	. 5,029	22 "	24 ,,	>>	1,210	19	1,229
Misr VI	. 5,051	26 "	2 8 "	>>	708	38	746
		1	1.).			
			Total	L	19,870	1,046	20,916

TABLE No. 50.—DETAILS OF STEAMERS WHICH TRANSITED THE CANAL

Name of Steamer	Net Tonnage	Date of Arrival 1951	Date of Departure	Desti- nation	Number of Foreign Pilgrims
Charlton Sovereign	1,677	3 0 Sept.	30 Sept.	Algiers	711
Roda	2,157	2 Oct.	3 Oct.	>>	704
Izmir	3,021	2 ,,	2 ,,	Lattakia	1,088
Providence	6,693	2 ,,	2 "	Algiers	1,345
Eleni	2,227	5 "	5 "	Tripoli	340
Tewfik	354	12 "	12 ,,	Beirout	7
Blue Star	68 8	13 "	13 "	Tangiers	321
			To	OTAL	4,516

Table No. 51.—Details of Aircrafts which landed Pilgrims

At Tor Station

Aircraft	Date of	Data		Nu	ımber of Pilgrim	g
No.	Arrival	Date of Departure	Destination	Egyptians	Foreigners	TOTAL
4	1951 17 Sept.	1951 22 Sept.	Cairo	149	10	159
5	19 "	24 "	**	185	13	198
. 5	21 "	25 "	***	146	20	165
6	23 "	26 "	22	193	9	202
6	24 "	27 "	,,	193	14	207
6	25 "	28 "	>>	174	23	197
8	26 "	29 "	>)	180	75	255
7	27 "	30 "	,,,	202	24	226
7	28 "	1 Oct.	,,	210	12	222
10	29 "	2 "	99	282	33	315
3	30 "	3 "	3)	62	45	107
1	1 Oct.	4 "	>>	8	15	23
1	2 "	5 "	29	12	13	25
1	3 "	6 ,,	>>	2	27	29
1	5 "	8 "	,,	4	17	21
2	6 "	9 "	29	10	67	77
1	9 "	12 "	,,	13	12	25
1	11 "	14 "	,,	5	31	36
1	15 "	16 "	,,	9	30	39
1	15 "	18 .,,	19	3	6	9
1	17 "	20 ,,	"	9	4	13
1	20 ,,	23 "	>>	2	8	10
1	22 ,,	25 "	22	_	34	34
1	24 "	27 ,,		9	11	20
81	Aircrafts		TOTAL	2,062	553	2,615

TABLE No. 52.—Comparative Statement of Pilgrims landed at Tor during the last Three Pilgrim Seasons

Nationalities /		1949 A. D, 1368 Heg.	1950 A. D. 1369 Heg.	1951 A. D., 1370 Heg.
Egyptians		18,983	25 ,3 41	21,9 32
Afghanis		39	16	3
Algerians	•••	517	869	1,983
Chinese	•••	2	1	
British	•••	46	8	3
Cypriots	•••	. 2	_	
Cyrenaica	•••	_	6	8
French	•••	1		26
Ceylonees	***	-	3	_
Indians`	•••	171	114	119
Iraniasn	•••	360	133	
Irakis	•••	503	442	5
Indonesians	•••	19	9	3
Lebanese	•••	473	354	1
Greeks	•••	-	13	13
Moroccans	•••	525	1,012	1,133
Palestinians	•••	59	21	2
Pakistanis	•••	20	99	70
Senegalese	•••	300	329	370
Syrians	•••	1,826	1,905	1,066
Transjordanians	•••	4	15	2
Tripolitans	•••	198	297	351
Tunisians	•••	213	374	582
Turks	•••	4,066	4,389	38
Saudis	•••	157	223	300
South Africans	•••	11	10	13
Miscellaneous	•••	17	58	34
Total	•••	28,512	36,041	28,057

HOSPITAL ADMISSIONS

A total of 117 persons were admitted to the hospital, including 15 pilgrims from aircrafts, 81 pilgrims from vessels and 21 non pilgrims (Officials and workmen).

This number includes

- 89 Egyptians.
- 4 Algerians.
- 2 Pakistanis
- 1 Tunisian.

Nature of diseases:

,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,										
Appendicitis, acute		• •	• • •	• • •	•••	•••	• • •	•••	• • •	1
Dysentery, acute					• • •	•••	٠	•••	•••]
Dysentery amoebic		• • •	•••	•••	•••	• • •	•••	• • •	•••	2
Paratyphoid with bro	oncho-pi	neumo	nia	• • •	•••	• • •	•••		•••	1
Constipation	•••	• • •	. • • •	• • •	• • •	•••	• • •	•••	•••	1
Colics		• • •	• • •	• • •	• • •	•••	•••	•••	•••	2
Chronic Colitis	• • • • • •	•••	• • •	•••	•••	•••	•••	•••	•••	1
Colitis, acute		•••		• • •	•••	•••	•••	•••	•••	1
Bronchitis, acute					• • •	•••	•••	• • •	•••	5
Enteritis	•••		• • •	•••	• • •	•••	•••	•••	•••	5
Bronchitis, Chronic	•••	•••	•••	•••	•••	• • •	•••	•••	•••	2
Bronchitis with lary					• • •	•••	• • •	• • •	• • •	1
				•••	•••	• • •	•••	•••	•••	8
Pneumonia	• • • • • •	•••	• • •	•••	• • •	•••	•••	•••	•••	9
Broncho-pneumonia		• • •			•••	•••	•••	•••	•••	2
General debility					• • •	•••	•••	• • •		9,
Debility after miscar				•••	•••	• • •	•••	•••	•••	1
Senility				•••	•••	• • •	•••	•••	•••	10
Sun Stroke					• • •	• • •	• • •	•••	•••	3
General debility, sen					•••	• • •	•••	•••	• • •	1
	•••				•••	• • •	•••	•••	•••	1
020-0-0-0	•••				•••	•••	• • •	•,••	•••	7
					•••	• • •	•••	•••	•••	2
		•••			•••	• • •	•••	•••	•••	2
Septic wounds					•••		•••			1
•		•••		•••	•••	• • •	•••	•••	•••	1
Dropsy		•••		• • •	• • •	•••	•••	•••	•••	1
	•••	•		•••		• • •	•••	•••	• • •	8
Prostatitis with reter					• • •	•••		• • •	•••	2
Cerebral hemorrhage		•••			•••	•••	•••	•••	0	1
Diabetes with abscess			_					• • •	•••	1
						• • •		•••		5
0 - 0 - 0 - 0	•••					•••		•••	•••	3
Renal Colics Heart Failure with o					•••	•••	•••	•••		1
Fractures					• • •	•••	•••	•••	•••	4
Cellulitis						•••		•••	•••	4
					•••	•••	• • •	•••	• • •	1
High blood pressure						• • •	•••	•••	• • •	1
Uraemia with syncol						•••	• • •	•••	• • •	1
Senility with uraemi Tuberculosis							•••	•••	•••	1
						•••		•••	•••	1
Hydrocele	ahoum	•••	•••		•••				•••	1
Hemorrhage before I Relative accompanyi	ng notic	nt	•••			•••		•••	•••	1
Relative accompany	ng paule	,110	•••	•••	•••					
						То	TAL	•••	•••	117

Deaths: 7 deaths occurred during the season, including:

- 4 pilgrims. (2 males and 2 females) arrived by vessels.
- 3 Pilgrims. (all males) arrived by aircrafts.

The causes of deaths were:

- 1 Female, Uremia and collapse.
- 1 Male, Heart failure with chronic Asthma.
- 1 Female, Dropsy.
- 1 Male, Uremia, Senility and General Debility.
- 1 Male, Cerebral Hemorrhage resulting from high blood pressure and chronic renal colics.
- 1 Male, Broncho Pneumonia.
- 1 Male, Sun Stroke.

LABORATORY

Initially, bacteriological examination of the stools of all pilgrims and members of the crew who arrived on the first two vessels and the first 20 aircrafts, was carried out. 3,741 specimens were thus examined for cholera vibrio during the period 17-24 September 1951

As from that date, the proportion of stools examined was reduced to 50% and then gradually lowered, until for the last vessels 20% only were examined.

In this way, a total of 10,323 specimens were examined for v. cholerae: 41 specimens showed the presence of non agglutinating vibrios.

In addition to the above specimens, the laboratory carried out the examination of the following specimens:

- 4 Sputum for T.A.B., result: 3 negative, 1 positive.
- 10 Stools for Dysentery, result all negative.
- 7 Stools for Enterica, result all negative.
- 12 Urine for diabetes and albumin, result 3 positive for diabetes, 4 positive for albumin.
 - 7 Blood for widal, Weil-Felix result 4 negative, 1 P. Bx 19 1/50, 1 PAx 19 1/50, 1 T.H. 1/125.
 - 7 Blood specimens for malaria and relapsing fever, all negative.

Post Mortem.—One corpse was examined and found that the death was due to cerebral hemorrhage as a result of high blood pressure and nephritis.

Water Supply.—On September 25, 1951, specimens of water were taken from the three wells and 8 tanks. All specimens were found satisfactory. The results were as follows:

Lactose fermenters in 10 ccs.

2 present in one well.

1 ,, ,, ,,

1 ,, in each of 4 tanks

4 . 2 .

Ordinary bacteria in 1 cc.

in the three wells: 25, 15 and 10 respectively.

in the 8 tanks: 20, 10, 14, 30, 10, 40, 15 and 20 respectively.

Chapter VII.-Permits

The permits department was instituted in 1946 within the Ministry of Social Affairs. It was affiliated to this Ministry in 1947 with a view to facilitating the procedure of granting permits to sanitary establishments by combining in one department all the authorities concerned with this work; dispersal of these authorities among different departments having caused great delay in granting permits. Although only two of these authorities were combined, namely the Permits Office of the labour Department of the Ministry of Social Affairs and the Sanitation Office of this Ministry, much difficulties have been overcome and the time taken for issuing permits to unhealthy, inconvenient and dangerous establishments governed by law No. 13 of 1904 has been much reduced.

Most of the sanitary engineers of the Department have been posted to the provinces and governorates so that time may be saved in surveying establishments and prescribing the necessary sanitary conditions required. Only a small number has been kept in the central administration for supervision and control.

A large number of complaints is received by the department either from delay in granting the permits, difficult sanitary conditions imposed or against exploiting establishments without permits. Some of these complaints are investigated by the department. The rest are forwarded to the police or health offices for investigation and report.

During the year under review, 2,099 applications for new permits were received as against 2,058 applications in 1950.

1,254 permits were issued during the year as against 1,302 in 1950.

Chapter VIII .- State of Public Health in Cairo and Alexandria

Cairo City

174 06 00

Population:

The estimated mid-year population of Cairo City in 1951 was 2,326,222.

Births:

The total number of births (excluding still births) recorded during the year was 117,599 or 4,111 more births than the previous year and a birth rate of 50.55 per thousand of population.

Still births numbered 2,109 or a ratio of 17.93 per thousand births as against 2,000 still births in the previous year.

Deaths:

The number of deaths notified during the year was 53,924. This figure includes 1,573 deaths of non residents of Cairo City and 2,109 still births leaving 50,242 deaths proper for Cairc City or 1,570 more deaths than last year and a death rate of 21.59 per thousand of population.

Infantile Mortality:

The number of deaths of infants under one year of age was 20,079 or a ratio of 170.7 per thousand of live births as compared with 178.6 in the previous year.

The infantile deaths constituted 39.9 per cent of the total of Cairo deaths as compared with 41.6 in 1950.

Table No. 54 Gives the distribution of births, deaths and infantile deaths and ratios on the various Districts of Cairo.

Causes of Infantile Mortality:

Diarrhoea and enteritis still account for the greatest number of infantile deaths, namely 10,948 out of the total of 20,079 deaths or a ratio of 54.5 per cent. Congential debility accounted for 5,864 deaths or 29.2%. Chest diseases accounted for 1,937 (exclusive of broncho and lobar pneumonia deaths) or 9.1%. 778 deaths or 3.3% were due to infectious diseases and 652 deaths or 3.2% from other causes.

Death Inquiries:

A total of 7,828 uncertified deaths or 14.5% of Cairo deaths were investigated by Cairo District Medical Officers and 22,051 or 40.89% by District Midwives.

Infectious Diseases:

A total of 18,511 cases of infectious diseases were reported during the year or a case rate of 7.95 per thousand of population as compared with 17,539 cases in 1950. 4,769 deaths from infectious diseases were recorded during the year or a ratio of 9.4% of Cairo deaths.

Table No. 56 gives the number of infectious diseases cases and deaths and their rates during the year:

Cholera and Ralapsing Fever:

No cases or deaths from either cholera or relapsing fever were reported during the year; nor during 1950 and 1949.

Small pox i

der out the last of the state o Two cases of small pox with no deaths were reported during the year. This is compared with one case in 1950, 2 cases in 1949 and one case in 1948 with no deaths.

Anti Small Pox Vaccination:

The practice of undertaking a house to house prophylactic vaccination in certain districts of the City has been abandoned. It has been decided to carry out the vaccination simultaneously in all the districts of the City. A total of 499,930 persons were vaccinated during the year as compared with 340,008 in 1950, 321,501 in 1949 and 552,074 in 1948.

Besides, district health offices undertook the compulsory vaccination of 110,855 new born infants.

Typhus:

34 cases of typhus with one death were reported during the year or a case rate of 0.014 per thousand of population as compared with 32 cases with two deaths in 1950.

Typhoid:

3,368 cases of typhoid with 268 deaths were recorded during the year or a ratio of 1.4 and 0.1 respectively per 1000 of population as compared with 3,711 cases with 359 deaths in 1950.

473,585 persons were inoculated once against typhoid and 294,549 twice.

Diphtheria:

554 cases with 131 deaths were recorded during the year or a ratio of 0.24 and 0.05 per thousand of population as compared with 530 cases with 117 deaths in 1950.

85,536 persons received the first anti-diphtheria injection, 83,050 received the second injection and 81,714 received the third.

Measles:

2,248 cases with 1,038 deaths were recorded during the year or a ratio of 0.9 and 0.4 respectively per 1,000 of population as compared with 585 with 230 deaths in the previous year.

Cerebro Spinal Fever:

274 cases with 35 deaths were recorded or a ratio of 0.1 and 0.01 per thousand of population as compared with 1,274 cases with 167 deaths during 1950.

Scarlet Fever:

45 cases of scarlet fever with no deaths were reported during the year as against 10 cases in the previous year.

Influenza:

2,896 cases with five deaths were recorded during the year or a ratio of 1.24 and 0.002 per thousand of population as against 2,777 cases with 9 deaths in 1950.

Tuberculosis:

Unlike previous years, cases of this disease have been recorded under two headings: pulmonary T.B. and T.B. of other organs. 2,567 cases with 1,291 deaths of the former and 339 cases with 170 deaths of the latter were recorded during the year or a total of 2,906 cases with 1,461 deaths and a ratio of 1.24 and 0.624 per thousand of population as against a total of 3,583 cases with 1,683 deaths in 1950.

Malaria:

347 cases of malaria (341 new infections and 6 relapses) with 2 deaths were recorded during the year as against 516 cases (507 new and 9 relapses) in the previous year.

Deaths attributed to Confinement:

66 deaths attributed to confinement were recorded this year or a ratio of 0.56 per thousand births as against 0.8 per 1000 births in the previous year.

Disinfection:

A total of 2,343,968 persons with their effects and beddings were dusted with D.D.T. and 46,985 rooms disinfected by Cairo disinfection stations.

SANITARY CONTROL

Passengers:

30,378 passengers arrived in Cairo City from infected countries as compared with 2,566 in 1950.

Of this number, 11,411 arrived by air, 209 arrived by car via Ismailia, 1,308 via Suez, 2,358 via Kantara, 511 arrived by sea via Alexandria and 533 via Port Said.

Besides, 13,848 passengers arriving from the Sudan via Shellal were observed for small pox, yellow fever, cerebro spinal and relapsing fevers.

All the passengers were observed for the regulation period and found in good health except 392 passengers or 1.29% of total arrivals who could not be traced.

Pilgrims:

3,240 Egyptian pilgrims arrived from the Hedjaz during the year as against 3,495 in 1950. All were observed for the regulation period and found in good health.

Deaths:

98 pilgrims died in the Hedjaz, 1 died after arrival, 1 died of dysentery and two of typhoid.

Besides, 109 pilgrims from other localities than Cairo City were observed and found in good health. Personnel of the medical mission and other staff numbering 111 were also observed and found in good health.

SANITATION

Sanitation activities include:

- (1) Taking samples of water periodically from the different water works in Cairo, Helwan, Zeitoun, Heliopolis and Giza for analysis to ensure their potability; also from water taps in the different districts and from swimming pools.
 - (2) Control and prosecution of quack doctors.
 - (3) Observation of street cleanliness and prosecution of offenders.
- (4) Control of sewage disposal and prosecution of persons dumping sewage matter in unauthorised sites.
 - (5) Fencing and cleanliness of waste lands.
- (6) Control of the evacuation of private cisterns. 2,000 permits were issued during the year.
- (7) Dealing with complaints against insanitary practices, e.g. dumping filthy water in streets, overflow of cesspits, dirty houses, etc. Some 2,300 complaints were received and dealt with during the year.
- (8) Supervision, maintenance and repair of 210 free water taps scattered throughout the City.
- (9) Supervision of 8 water basins for washing and disinfecting fresh vegetables and fruits brought daily into the City.
- (10) Compulsory evacuation of cisterns. 3,500 evacutions were carried out during

During the year, 2,967 establishments of the three classes were licensed under law No. 13 of 1904 and 327 public establishments under law No. 38 of 1941.

Of 25,716 unhealthy establishments inspected during the year, 20,590 were found satisfactory and 5,126 lacked sanitary conditions.

Of 11,142 dangerous and inconvenient establishments inspected, 9,476 were satisfactory and 1,666 unsatisfactory.

Of 3,555 public establishments inspected, 3,011 were satisfactory and 544 unsatisfactory.

2,347 contraventions were served on establishments exploited without licences and 2,332 contraventions for lacking sanitary conditions.

Cairo City Police Health Office.

A total of 3,798 days' sick leave were granted to Cairo City Police personnel during the year.

POPULATION OF CAIRO CITY, 1951

POPULATION OF CAIR	o CITY, 1951
Qism	Number
Qubba	93,844
Heliopolis	92,195
Zeitoun	90,257
Abbassia	136,186
Ezbekia	110,053
Rod el Farag	189,957
Shúbra	125,135
Sharabia	79,682
Gamalia	121,843
Bab el Shaaria	134,342
Abdin	94,996
Mouski	79,322
Darb el Ahmar	117,100
Khalifa	127,922
Sayeda I	111,290
Sayeda II	101,072
Boulaq I	. 68,879
Boulaq II	77,361
Adawia	71,692
Old Cairo	113,581
Helwan	50,614
Maadi	46 _a 584
Hadayeq Shubra	92,315
	-101
TOTAL	2,326,222

TABLE No. 54.—VITAL STATISTIC OF CAIRO CITY 1951 DISTRIBUTED ACCORDING TO QISMS.

Cairo Districts (Qisms)	Population	Births	Birth rate per 1030 of population	Deaths	Death rate per 1,000 of population	Deaths below one year	Infantile death rate per 100 births
Qubb a	93,844	5,2 81	56.2	2, 226	23 · 7	977	18.5
Heliopolis	92,195	2,589	28.0	1,128	12.2	319	12.3
Zeitoun	90,257	5,526	61.2	2,422	26.8	998	18.0
Abbassia	136,186	7,346	53.9	2,318	17.0	729	9.9
Ezbekia	110,053	4,031	36.6	1,909	17 · 3	713	17.6
Rod el Farag	189,957	9,175	48.3	3,569	18.7	1,480	16.1
Hadayeq Shubra	92,315	6,178	66.9	2,385	25.8	1,098	17.7
Shubra	125,135	7,071	56.5	2,646	21 · 1	1,081	15.2
Sharabia	79,682	5,568	89.8	2,344	29.2	1,065	19.1
Gamalia	121,843	6,270	51.3	2,914	23.8	1,197	19.0
Bab el Shaaria	134,342	5,311	39.5	2,382	17.7	898	16.9
Abdin	94,996	3,741	39.3	1,593	16.7	490	13.0
Mouski	79,322	3, 1 51	39.7	1,346	16.9	517	16.4
Darb el Ahmar	117,100	5,558	47.4	2,517	21.4	1,014	18.2
Khalifa	127,922	6,641	51.9	3,283	27 · 2	1,386	20.8
Sayeda I	111,290	6,732	60.4	2,744	24.6	1,019	15.1
Sayeda II	101,072	3,980	39.7	1,997	19.7	871	21:8
Boulaq I	68,879	2,900	42.1	1,620	23.5	622	21.7
Boulaq II	77,361	3,767	48.6	1,629	21.5	669	17.7
Adawia	71,692	6,599	92.0	1,827	25 · 4	803	12.1
Old Cairo	113,581	6,408	56.4	3,012	26 5	1,256	19.6
Helwan	50,614	2,464	48.6	1,079	21.3	406	16.4
Maadi	46,584	2,312	49.6	1,352	29.0	471	20.3
TOTAL	2,326,222	117,599	50.5	50,242	21.5	20,079	17.0

TABLE No. 55.—Distribution of uncertified deaths on Cairo districts, 1951

			Deaths Ex	amine d by	
Districts	Total Deaths	Medical Officers	Midwives	Private Practitioners	Hospital Medical officers
Qubba	1,995	252	667	1,076	
Heliopolis	1,255	84	240	564	367
Zeitoun	2,296	299	1,398	556	43
Abbassia	3,940	149	502	1,280	2,009
Ezbekia	1,760	180	791	728	61
Rod el Farag	3,386	360	1,459	1,567	_
Hadayeq Shubra	2,364	162	1,089	1,069	44
Shubra	2,488	200	1,008	909	. 371
Sharabia	2,348	480	1,401	285	182
Gamalia	2,629	215	1,164	1,250	_
Bab el Shaaria	2,145	112	793	1,179	61
Abdine	1,268	274	661	313	20
Mouski	1,242	304	537	401	
Darb el Ahmar	2,256	603	1,354	299	
Khalifa	3,039	1,015	1,518	506	_
Sayeda I	6,017	381	1,216	417	4,003
Sayeda II	2,453	394	713	482	864
Boulaq I	. 1,422	290	812	315	5
Boulaq II	. 1,561	301	940	320	_
Adawia	. 2,725	465	1,179	121	960
Old Cairo	. 2,904	698	1,455	679	72
Helwan	. 1,128	147	566	296	119
Maadi	. 1,303	463	588	144	108
Total	. 53,924	7,828	22,051	14,720	9,325
Rate per cent		14.5	40.8	27.2	17.2

Table No. 56.—Infectious diseases Cases, Deaths and Rates per 1,000 of Population

Diseases		Cases	Case Rates per 1:000 of population	Deaths	Death Rates por 1.000 of population	Case Mortality Rates per oent
Typhoid	•	3,368	1.44	268	0.11	7.9
Typhus		34	0.015	1	0.0004	2.9
Diphtheria		554	0.23	131	0.05	23.6
Chicken pox	•••	2	0.0008		- '	
Small pox	•••	776	0.33	3	0.001	0.38
Measles	•••	2,248	0.96	1,038	0.44	46.17
Cerebro Spinal Fever	• • • • • •	274	0.11	35	0.01	12.7
Scarlet fever	•••	45	0.01	gamenta.	encountries.	
Whooping cough	•••	350	0.15	19	0.008	5.4
Mumps	•••	924	0.39			
Rabies	***	5	0.002	5	.0.002	100
Tetanus	•••	84	0.03	32	0.01	38.09
Peurperal fever	•••	186	0.07	23	0.009	12.3
Undulant fever	•••	55	0.02	2	0.0008	3.6
Dysentery	•••	222	0.09	82	0.03	36.9
Tuberculosis	•••	2,567	1.1	1,291	0.55	50.2
Influenza	•••	2 ,896	1.24	5	0.002	0.17
Erysipelas	•••	451	0.19	8	0.003	1.7
Malaria New	•••	341	0.14	1	0.0004	0.29
Malaria Recurrent	•••	6	0.002		_	_
Broncho pneumonia	••	2,320	0.99	1,502	0.64	64.7
Lobar ,,	•••	458	0.19	153	0.06	3.43
Poliomyelitis	•••	6	0.003		_	
T.B. of other Organs	•••	339	0.14	170	0.07	50.1
Total	•••	18,511	7.95	4,769	2.05	25.76

1,473 Ö. TOTAL 6,225 Ö 1,038 Ä, Measles 2,248 rj. 131 Diphtheria Q 554 Ċ, Soarlet fever Table No. 57. -- District Distribution of the Principal Infectious Diseases 1951, Ä 5 Ö 268 000011120011120011144 Ö. Typhoid 3,368 169 139 93 273 273 127 127 167 105 105 109 30 30 o; Ä, Typhus 0100-00-0 34 ö 85 70 fever a Š 274 ರ Ö rod A Small ö 93,844 92,195 90,257 136,186 110,053 189,957 92,315 79,682 121,483 134,342 94,696 79,322 1117,100 101,072 68,879 77,361 71,692 1113,581 50,614 Population 2,326,222 TAL Tol Oleme Hadayeq Shubra Ahmar Bab el Shaaria Rod el Farag Shubra Ezbekia ... Gamalia ... Zeitoun ... Sharabia... Adawia Helwan ... Boulag I Old Cairo Heliopolia Sayeda II Sayeda I Abbassia Abdine Darb el Khalifa Mouski Maadi

Alexandria City

TABLE NO. 58.—MONTHLY AGE AND SEX DISTRIBUTION OF BIRTHS AND DEATHS IN ALEXANDRIA DURING 1951

							01 -								
	7	3		180	196	957	953	945	1,011	1,082	90	775	673	299	10,699
£ 2	707	Ä	200	600	1,021	166	A,064	186	I,099	, and .	1,011	10	200	180	124 127 1204 1204
	years	Fi.	000	112	124	132	117	130	114	151	154	119	123	146	9
	Over 65	×.	172	112	113	132	133	112	135	146	142	125	110	167	086.1
	years	ř.	()	<u>α</u>	200	09	69	53	65	19	TO TO	7.1	48	49	SIS
	€5-65 y	Ţ,	G P	96	121	66	611	68.	26	140	113	111	106	103	225.
	ors	Fai	0	47	74	61	99	26	29	بر س	62	41	29	20	2209
	16-45 years	K.		75	89	84	98	<u>16</u>	103	87	. 74	87	74	99	696
Deaths	years	pr.	0	20	8	18	25	15	20	17	20	13	14	17	
	5-15 ye	. K.	F.C.	21	24	10	30	19	24	က	24	. 21	21	21	988
	years	Pi.	0%6	255	317	286	294	248	262	283	263	214	162	145	3,988
	1-5 ye	M.	5	243	294	254	276	232	242	230	239	174	146	128	25,7
~	your	Ei Ei	, CH &	291	370	400	382	427	483	517	429	317	297	258	4,523
	Under 1	M.	407	292	404	407	420	444	498	540	419	427	293	306	20 00 10
		Pi	76	3 15	44	80	33	လ.)လ	33	20	36	26	හි	က	429
	Still	M.	40	45	. 67	22	63	52	41	62	41	රු	72	7.1	099
Births		Female	9 457	2,367	2,587	1,946	1,974	1,882	2,215	2,273	2,303	2,255	2,296	2,685	27,25
	Live	Male	9. 638	2,542	2,583	2,126	2,095	2,060	2,347	2,476	2,334	2,348	2,383	2,646	28,578
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	A				:	•	:		:		:	*	•	:	
			January	February	March	April	May ;	June	July	August	September	October	November	December	

ee ~ 31 2 2 Death TOTAL 60 50 2000 ල ද 322 2000 60 ¥0 ₹ 000 ₹ 700 148 86 Case Over 65 years S Death 45-65 years 9 8 Case 10 Death 15-45 years 13 68 108 17 125 200 01 13 70 1 Death 5-15 years 45 30 12 20 14 85 39 20 21 17 27 Death 1 1 1-5 years 12 48 86 155 135 - 07 57 10 cm 010, ಣ 01 10 00 1-Death 69 13 13 0-1 21 14 ZE Z E N N H. Z E N E N N N N M M Z'E 五河 sdunk Puerperal Fever ... Cerebro Spinal Fever Disease Undulant Fever ... Whooning Cough Encephalitis ... Diphtheria ... Scarlet Fever Chicken Pox Malaria ... Typhus ... Teranus...

Table No. 59.—Age and Sex Distribution of Infectious Diseases Cases and Deaths in Alexandria during 1951

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$\begin{array}{cccccccccccccccccccccccccccccccccccc$: : :	Ä.	394	256 228	984	490	159	37	73	10	25	O 10	20	18	1,655	820
$\begin{array}{cccccccccccccccccccccccccccccccccccc$:::::::::::::::::::::::::::::::::::::::	E.E.	20 22	23	126	12 13	31	98	149	20 4	46	13	20 0	က က	400	## ## ## ## ## ## ## ## ## ## ## ## ##
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Pulmonary Tuberculosis	ZE.	407	<u>ත</u>	222	14	35	26	442	245 126	109	73	12	1000	624	371
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$:	H.H.	H-67	2	1-6	कि	2 9	9 9	21	10	70 41	70 4			4 co	# 82 69 69
	<u>:</u> :	H.		정 귀	CJ 41	0.14			<u>හ</u>	<u> භ</u>					9 9	10

Chapter IX.—International Health

WORLD HEALTH ORGANIZATION

World Health Assembly:

The World Health Assembly held its Fourth Session in Geneva during May 1951. Egypt was represented by a delegation headed by the Minister of Health and included the Under Secretary of State With four technical and one legal advisers.

Regional Committee:

The Regional Committee for the Eastern Mediterranean did not meet in Cyprus as was originally planned. This was in compliance with a decision adopted by the Arab League forbidding representatives of Arab countries from sitting with Israel's representatives on any regional meeting.

Egypt's Contribution to the W.H.O. Budget:

Egypt's contribution amounted to L.E. 19,500.

World Health Day:

As usual, the Ministry celebrated the World Health Day on April 7, 1951 being the anniversary of the coming into force of the W.H.O. Constitution having been ratified by 26 members of the United Nations on April 7, 1948.

W.H.O. Expert Committees:

The W.H.O. issued several technical reports compiled by its Expert Committees. These were distributed to the Departments and Sections concerned.

The following Expert Committee meetings were attended by Egyptian members:

Name of Committee	Place	Session	Name of Expert
Comm. on International Pharmacopoeia		19–28 Apr. 1951	Prof. D.I.R. Fahmy
Comm. on Cholera	New Delhi	19-20 Nov. 1951	Prof. D.M.A. Gohar
Comm. on Nutrition	Rome	10–17 Apr. 1951	Prof. Dr. A. Hassan

Fellowships:

Ten W.H.O. Fellowships were awarded to Egypt during the year. These covered a wide range of subjects including Industrial Hygiene, Maternal and Child Health, Health Education etc.

Three fellowships to the International Child Centre of Paris were also awarded. The Ministry received a number of fellows from State Members of the Region for study and training in various health fields specially Malaria and Endemic diseases control.

Principal Activities of International Organizations in Egypt during 1951:

(1) The mass B.C.G. Vaccination Campaign was maintained in Egypt throughout the year with the assistance of the U.N.I.C.E.F. and the Danish Red Cross.

- (2) Some Experts came to Egypt and discussed with the Ministry certain health problems.
- (3) The Ministry, with the cooperation of the WHO, initiated a Regional Training Centre in Health and Vital Statistics. Forty four delegates representing different State Members of the Region attended the study in this Centre.
- (4) Plans were made for a Tuberculosis Demonstration and Training Centre to be established at Bab El Shaaria.
- (5) A Demonstration Centre for the Control of Venereal Diseases was established at Tanta and began work in May 1951. By the end of the year 25,000 persons had been examined, and 1,000 treated.
- (6) The Agouza Laboratory started the production of B.C.G. vaccine to meet requirements of Egypt and neighbouring Arab countries.
- (7) Several publications and scientific literature were supplied by WHO and distributed to the various Departments.
- (8) Preliminary preparations for the institution of a Health Demonstration Area in Kaliub have been made.
- (9) The Government sought the assistance of WHO and UNICEF for establishing a DDT production plant.

Name	Place	Date
IXth International Congress of Entomology in Netherlands.	Amsterdam	17-24 August, 1951
Thirteenth International Congress of Psychology.	Stockholm	16-21 July, 1951
The Royal Sanitary Institute Health Congress	South Port (England)	23-27 April, 1951
Congrès International Jubilaire de la Sociéte Française de Gynécologie.	Paris	23-29 June, 1951
Seventh International Hospital Congress	Brussels	15-31 July, 1951
Les Journées Médicales de Bruxelles XXVe Session.	$\mathbf{Brussels}$	9–13 June, 1951
Union Internationale pour l'Education Populaire.	Paris	11 April, 1951
International Association of Allergists. First International Congress.	Zurich	23-29 September, 1951
The National Association for the Prevention of Tuberculosis, London.	Pairs	11-13 September, 1951
Exposition International des Arts Sanitaires.	Turin	30 May-12 June, 1951
Union Internationale contre le Péril Vénérien.	Paris	21 May, 1951
Second FAO Regional Meeting	Bloudan (Syria)	28 August, 1951
Congrés International des Sourds-Muets	Rome	19–23 September, 1951
Fédération Internationale Pharmaceutique XIVeme assemblée Générale.	Rome	23-29 September, 1951
International Blood Transfusion Congress	Lisbon	23-28 July, 1951
Second Intenational Poliomyelitis Conference.	Copenhagen	3-7 September, 1951

Chapter X.—Medical Permits

l'able No. 60.—Number of practitioners of the medical and allied professions at the end of the year 1951 as compared with that of the year 1950

Professions		•		At the end of 1950	At the end of 1951
Medical Practitioners	***	•••	•••	4,797	5,151
Veterinary Surgeons	• • •	•••	• • •	637	548*
Dental Surgeons	• • •	•••	• • •	591	644
Dentists without diplomas	• • •	• • •		106	105†
Pharmacists	* * •	No o	• • •	1,487	1,551
Midwives	***	• • •	• • •	1,046	275*
Assistant Pharmacists	• • •	***		321	321†
					,

[†] No permits are now issued to persons of these two categories.

TABLE No. 61.—Number of persons authorised to practise them professions in Egypt during the last five years

Professions	1947	1948	1949	1950	1951
Medical Practitioners	142	128	186	218	379
Veterinary Surgeons	24	1	53	42	23
Dental Surgeons	14	19	32	9	
Pharmacists	120	77	81	98	65
Midwives	68	3 0	32	50	145*
Kabela	141	221	5 6	7	2,432*
Barbers	7	6	2	1	

^{*} A law was enacted providing for the registration of previously authorised persons. The numbers shown represent those registered during the year under review.

^{*} A law was enacted providing for the registration of previously authorised persons. The numbers shown represent those registered during the year under review.

TABLE No. 62.—ORIGIN OF LIDICAL DIFLUMAS WHOSE HOLDERS WERE AUTHORISED TO PRACTISE MEDICAL PROFESSIONS DURING 1951

Professions	Carro	Abbasia	Alexandria	Greet Britan	Grecco	Russia	France	Lebanon	America	Italy	Austria	Germany	Palestine	TOTAL
Medicine	264	29	61	4	6		5	3	2	3	1	1	ormanique.	379
Veterinary Surgery	23													23
Pharmacy	58			Stronger son			1	6				_		65
Midwifery	135	distriguismo		1	1	1	1	1		2	1	1	1	145

TABLE No. 63.—NATIONALITIES OF FERSONS AUTHORISED TO PRACTISE MEDICAL PROFESSIONS DURING 1951

Profession	Egyptians	Groeks	Americans	Rumanians	British	Germans	French	Russians	Italians	Syrians	Trans Jordan	Palestinians	Total
Medical Practitioners	358	6	2	Spinor	2	1	1	2	4	1	2	2	379
Veterinary Surgeons	23			agranaspur-		og djiloh		-		Spirons			23
Pharmacists	63			1		Specialization	1			rametydda.	-		65
Midwives	138	1	-	gagerania.	2	- particular		1	3			emplin	145

Table No. 64.—Origin of medical diplomas of Egyptian practitionrse who were authorised to practise medical professions during 1951

		P	rofess	ions					Cairo	Abbassia	Alexandria	Great Britain	Greeco	France	Lebanon	Palestine	Austria	TOTAL
Medicine		***	•••		•••				258	29	•	. 2	2	3	3		1	358
Veterinary		• • •	•••			0 0 0	• • •	• • •	23	-								23
Pharmacy	• • •	***		•••	•••		• • •	400	56		· with and			1	6			63
Midwifery	•••	•••	•••	0.20		* * *		• • •	133		_	1		1	1	1	1	138

TABLE No. 65.—RESULT OF THE STATE EXAMINATIONS HELD DURING 1951 FOR MEDICAL PRACTITIONERS, PHARMACISTS AND DENTAL SURGEONS HOLDING FOREIGN DIPLOMAS FOR THE PURPOSE OF RECORDING THEIR NAMES IN THE MINISTRY'S RECISTER

					Egyp	tians	Forei	gnera	Total			
Y	ixamir	ation				Number	Succeeded	Failed	Succeeded	Failed	Succeeded	Failed
Medicine		•••			÷-c =	23	-		4	19	4	19
Pharmacy	0-0-4	0 8-0	***			3				3		3
Dentistry	•••		***	0-0-0	804	24	1	1	3	19	4	20

PART II.—SOCIAL HYGIENE

Chapter XI.-Maternity and Child Welfare

The year under review was a continuance of last year's exceptional activities in the social field. Fellowships were awarded by the UNICEF and WHO to members of the Section to study developments abroad.

Cooperation is now firm between child welfare units and B.C.G. vaccination authorities. An appreciable number of the staff of child welfare centres have been trained in B.C.G. vaccination technique.

Following the termination of the final constructional works at Deirut child welfare centre, steps have been taken to prepare it for service. Final arrangements have been made to open the in-patient Section at Damietta.

The Abnoub child welfare centre, hitherto a unit of the provincial council, is being annexed to the Ministry.

The increase of the milk contribution to three times its former amount has been instrumental in improving the health of babes, increasing attendance at child welfare units and encouraging pregnants to seek accommodation in the in-patient sections for confinement.

The following statistical data describe the activities of child welfare units during the year.

TA	BLE	No.	66
10	DLLE	TAO.	VV

TABLE No. 66	
Old pregnants	525,818
New Pregnants	151,937
Pregnants suffering from gonorrhoea	776
Blood specimens for Wassermann reaction	98,913
Positive specimens for Wassermann reaction	3,281
Specimens unfit	3,212
Pregnants and children treated for syphilis	1,685
Children attending centres	1,865,689
Cases of Infectious Diseases	6,749
Cases of hereditary syphilis	11,441
Cases of enteritis	206,717
Cases of pneumonia	155,285
Cases of skin diseases	128,575
Cases of other diseases	248,946
Circumcisions	3,140
Anti-small-pox vaccinations	32,378
Anti diphtheria inoculations	31,485
Lectures delivered by medical officers	5,272
,, ,, midwives	7,410
", ", assistant midwives	12,111
Visits to sick pregnants by medical officer	158
,, ,, puerperals ,, ,,	2,048
,, ,, infants by medical officers	237
Inspection visits ,, ,,	8,121
Confinements attended by midwife	10,085
assistant midwife	119,766
", medical officer	2,230
Total confinements	130,189
Confinements within in-patient sections	2,230
from outside (not registered)	11,034
Registered pregnants delivered outside	2,191

	Number
Confinements forwarded to hospitals	2,192
,, occurred before arrival of staff	17,472
Still births-full term	948
Premature births within first three months	127
" " " second three months	27
Still births after sixth month	446
Maternal mertality following child birth	62
Infantile mortality within first month of life	806
Visits to pregnants during 9th month by midwife	14,251
,, ,, ,, ,, ,, assistants	40,416
" peurperal mothers by midwife	142,815
,, ,, assistants	449,930
Visits for inspection of work of personnel	21,470
Other visits	13,710
Cases of Elcampsia	67
Perineal tears and Laceration of Perineum	705
Cases of Placenta Praeva	47
-,, puerperal fever	38
" high temperature	3,573
Urine samples examined	506,540
Pre-parturition Albuminuria	11,236
,, Diabetes	91
Visits to pregnants by assistant midwife	46,481
,, homes of infants	120,366
Other visits	23,779
Foods contributed	444,159 kgs.
Garments contributed	1,090
Cloth material contributed	7,477 metres
Infants treated with X rays	21,596

Chapter XII.—Chest Diseases

Statistical Data:

According to last year's report, a total of 106,696 positive tuberculous cases were recorded by the Chest Diseases dispensaries between 1929 and 1950. A further 11,307 positive cases were detected during the year 1951, making a total of 118,003 cases at the end of 1951.

During the Year, the following units were opened:

- (1) A new section in Alexandria Sanatorium (at Kom El Shoqafa), on March 27, 1951 by which beds have increased from 126 to 283.
 - (2) A Preventorium within Port Said Maritime Sanatorium on June 24, 1951.
- (3) A Branch dispensary at Bilkas on November 11, 1951 in connection with Sherbin dispensary. This was however closed on December 9,1951 and substituted by a dispensary
 - (4) A Chest Diseases dispensary at Marg Convalescent Colony on November 27, 1951...

Chest Diseases Units are now as fellows:

- 25 Chest Diseases dispensaries.
- 1 Mobile Mass Radiography Unit (annexed to Mobtadayan Chest Diseases dispensary).
- 17 Branch dispensaries.
- 17 In-patient Sections within dispensaries.
 - 5 Sanatoria.
 - 2 Surgical T.B. Institutions (exclusive of Port Said Maritime Sanatorium, functioning as a chest diseases unit though few bone cases have been admitted during the year).
 - 5 Preventoria.
 - 1 Colony for convalescents.

Mention was made in last year's report, that residents of Giza Village Sanatorium were removed to Almaza Sanatorium on April 13, 1950. In order to expedite repairs to the buildings and hasten the accommodation of the many patients on the waiting lists, a thousand pounds was contributed by each of the Society for Health Improvement and the Anti-tuberculosis Society. The Red Crescent Society expressed preparedness to contribute towards this humane scheme. It is hoped these repairs would be completed by mid 1952 and treatment resumed as heretofore.

The following are the occupations of tuberculous patients detected during the year 1951:

671 Tradesmen consisting of

157 foodstuff vendors

64 poultry and cattle merchants

126 grocers

82 fruiterers

242 other trades.

882 Employees including

436 civil servants

210 commercial employees

68 teachers

168 other employments.

2,854 Craftsmen consisting of

109 cooks 67 waiters 217 barmen 84 domestic servants 70 servants (farrashes) 59 gate-keepers 115 barbers 104 laundrymen 159 drivers 170 tailors 116 shoemakers 146 carpenters 189 building labourers 88 painters 323 employees in cigarette firms, etc. 231 weavers 186 mechanics 40 printers

381 other occupations.

2,292 Farmers.

408 Pupils.

4,200 Unemployed including

2,604 invalids

782 children

814 unemployed.

Of 180,873 new patients examined during the year, 11,307 were found positive for tuberculosis. Of these 730 were children (less than 10 years old) and the remaining 10,577 were adults.

Of 6,954 contacts (3,172 children and 3,782 adults) examined, 273 developed tuberculosis.

9,460 home visits were paid this year by medical officers and 34,737 by health visitors.

Appended to this report are detailed statistical data of the work carried out by the various dispensaries and other institutions.

RESUME OF ACTIVITIES IN MEDICAL AND SOCIAL SPHERES

- I.—Medical, social and preventive activities proceeded according to plan. During the year, the following measures were undertaken:—
- (a) At the request of the Ministry, the Alexandria Municipality handed over to the Section the premises of the Girls' Orphanage adjoining the Alexandria Sanatorium which has been equipped and furnished and opened to receive new patients as from March 27, 1951. The bedding accommodation of the sanatorium has thus increased from 126 to 283 beds.
- (b) A Preventorium within Port Said Maritime Sanatorium has been provided to accommodate 50 children and opened on June 24, 1951.
- (c) Since no chest diseases dispensaries existed in Marg area to examine and treat patients, it was decided to set up a dispensary within the Marg Convalescents Colony. An X-ray apparatus was therefore provided and the staff recruited from amongst the personnel of the Colony and other chest diseases units. Work was started in the Dispensary on November 27, 1951.
- II.—B.C.G. vaccination was continued in several Provinces of Lower and Upper Egypt with the aid of some of the international teams whom it was agreed to keep in Egypt until the end of 1952. Meanwhile, vaccination centres will be provided in Chest Diseases Dispensaries and Child Welfare Centres.

Of a total of 2,867,012 persons tested by Tuberculin since the campaign was started in December 1949 until the common of 1951, 894,278 were vaccinated. These were distributed according to localities as follows:

TABLE No. 67.

Locality			Number Tested	Number Positive	Number Vaccinated
			The second secon		
Cairo Governorate	• • •		. 230,951	41,092	61,879
Army units	• • •		12,445	8,227	3,411
Canal Governorate	• • • •	• •	122,683	47,303	40,691
Suez "	•••		169	137	29
Gharbia Province	•••		183,999	54,207	61,536
Dakahlia ,,	• • • •		376,506	104,114	114,895
Sharkia ,,	• • • •		331,907	136,609	143,076
Kaliubia ,,	• • • •		240,613	87,619	75,288
Menoufia ,,	• • • •		238,515	74,578	73,577
Fayoum ,,	400 /		3,841	1,277	414
Gerga ,,	• • • •		20,812	5,312	7,655
Qena ,,			34,051	33,813	27,163
Aswan ,,			1,363	608	. 559
Total	• • • •		1,854,258	594,896	610,173
By adding cases for 1949	year	3	7,771	5,577	1,061
and 1950	• • • •	0	1,004,983	309,217	283,044
GRAND TOTAL	•••		2,867,012	909,690	894,278

The B.C.G. vaccine is now prepared at the Sera and Vaccine Institute of this Ministry, although the concentrated tuberculin is still in the ted from Copenhagen. After dilution, the vaccine is supplied to the teams.

As the Central Statistical office could not be accommodated at the Central admipistration, it was temporarily accommodated at the Abbassia Chest Diseases Hospital. An experienced statistician nominated by WIIO is in charge.

III.—Mass Radiography receives the special interest of the Section. Two units have been installed in Mobtadayan and Alexandria dispensaries for the examination of patients attending these dispensaries. Work was started in the former on January 6, 1951 and in the latter on August 12, 1951.

Two more stationary units and five mobile are proposed to serve the largest number of patients throughout the Country.

Cases examined during 1951 by the existing two Stationary units are:

TABLE No. 68.

Dispensary	Number examined	Number Positive	Number Suspected	Number Negative		
Mobtadayan	15,442	1,086	1,872	12,484		
Alexandria	2,360	396	. 34	1,930		

Cases examined during the year by the mobile unit in the various parts of the country, however, are as follows:—

TABLE No. 69

Locality	Number Examined	Number Positive	Number Suspected	Number Negative	Dates of examination
,					
Remainder of Mansoura School area			5	. 1,004	2 - 11. 1.51
Health Improvement Village, Pyramids	326	-	12	314	8. 2.51
Sugar Factory Employees { Hawamdia Kom-Ombo Nag-Hamadi	3,318 1,978 4,697		45 25 44	3,273 1,953 4,653	28.3 - 3. 4.51
E. S. Railways Luxor employees at Souhag Minia	000		1 7 3	531 831 233	$ \begin{array}{r} 8 - 9.4.51 \\ 26 - 28.4.51 \\ 1.5.51 \end{array} $
Kom El Akhdar Village	980	14	66	900	14- 30.10.51
Islamic Missions at El Azhar	2,240	17	115	2,108	10 - 29.11.51
Army Recruits	3,702	, 19	5	3,678	13 - 26.12.51
					(by Recruiting Office Apparatus).
Total	19,856	50	328	19,478	

Attached to this report is a statistical table of cases examined monthly by the Mobile Radiography Unit.

IV.—The total of L.E. 58,000 were distributed during the year among 3,664 families of destitute patients by the Chest Diseases Dispensaries.

Besides, a credit of L.E. 1,500 was granted by the Council of Ministers on November 11, 1951 for distribution to the poorer tuberculous patients during Winter.

The following are details of the different courses of treatment given by Chest Diseases Units during the year as well as details of accommodation, expenditures, receipts, etc.

TABLE No. 70.—LISTS OF THE DIFFERENT FORMS OF TREATMENT FOLLOWED IN THE DISPENSARIES AND THE RESULTS THEREOF DURING THE YEAR 1951.

	DORMITORY TREATMENT			ARTIFICIAL PNEUMOTHORAX						
			Number		Number					
T	uberculous Patients	• • •	14,073	I	Patients treated A. P 4,450					
z	positive	• • •	8,651	I	nductions 1,404					
N ON	Sputum { negative	0 0 0	5,422	I	Refills 50,163					
CONDITION ON IST EXAMINATION	(unilateral	• • •	6,562		Positive 3,561					
Cont TEX	Lesion bilateral	•••	7,511		Sputum Negative 889					
-	cavitary	•••	6,680		(Unilateral 3,009					
	(Last Spu-) positive	A * *	6,602		Lesion Bilateral 1,441					
	tum Ēx.) negative	+ 3 +	7,471	BEFORE	Cavitary 2,816					
Ş	Increase of weight	* * •	6,280	Sur-6	Haemoptysis 468					
Treatment	Decrease of weight		2,772	CONDITION	Unilateral A.P 3,748					
Trea	Stationary		4,063	GO C	Bilateral A.P 654					
OF.	Died	1 0 5	958		Extrapleural A.P 48					
ESULT	Unable	* * *	4.873		Pneumo Peritonium P.P					
R	Walking	•••	4,361		Continued refills 6,336					
	Light Work	• • •	3,091	PPED P. CAUSE	Adhesions 523					
	Full Work		786		Bilateralization 453					
			\	STC	Effusion 314					
					Sputum still positive 1,680					
					,, negative 737					
					,, returned negative 1,703					
				L.	,, ,, positive 330					
				TREATMENT	Increase of weight 2,705					
					Decrease of weight 567					
				HO E	Stationary 960					
				RESULT	Died 212					
					Incapable 896					
					Walking 1,078					
					Light Work 1,759					
					Full work 499					

Table No. 71.—Statistics of Patients in Sanatoria and In-Sections of Dispensaries (Tanta, Mansoura, Damanhour, Shebin el Kom, Zagazig, Damietta, Sherbin, Zifta Fayoum, Beni Suef, Minia, Mallawi, Assiut, Souhag and Aswan) in 1951, and the Results of their Treatment.

No. of In-patients discharged	====					SANATORI	A			In-pt.
Sputam		Units	Almaza	Abbassia	Giza	Alex.		Suez		sections in Disp.
Spittum		No. of In-patients discharged	1,939	1,046	262	55 5	487	68	525	2 ,109
Cavitary 1,112 895 160 96 340 -1102 897 898 895 160 96 340 -1102 898 898 898 362 21 281 1,000 289 102 289 362 21 281 1,000 285 102 289 362 21 281 1,000 285 102 289 362 21 281 1,000 285 281 281 1,000 285 281 281 1,000 285 281 281 1,000 285 281 281 1,000 285 281 281 1,000 285 281 281 1,000 285 281 281 1,000 285 281 2	nission	Sputum ? negative	1,062	439	125	· 205	12	8	2 32	1,018 1,091
General Treatment		Lesion bilateral cavitary	919	5 84 895	190 160	187 9 6	178 340		110 152	602 892
Exercise Treatment	Bef	L Tamparature				3			5	1,003 1,106
therepy		Exercise Treatment					1 1	68		884 499 37
A.P. Refils 3,625 5,728 1,159 3,926 3,475 1,941 2,488 18,18 22 269	en	therepy No. of injections Streptomycine) No. of patients ·	412							328 596
Aspiration	ent giv	A.P. Inductions Refills	421 3,625	215	45	193	279 3,475	64	194 2,488	1,247 18,187
Aspiration	Freatm	Phrenic Crush	412			55 		2		56 238 —
Complications 194 372 89 28 3,627 12,847 12,043 3,627 12,847 12,8		Thoracoplasty	35	29	97		1	6	1	1,181 6 123
Request The property of th	(Complications	194	372		28		1,043	3,627	. 89 12,847
Request The property of th	ischarge	return			69		47	. 8	32	84
Weight decrease of weight 1,120	£ 1	request { ,, having special difficulties		44	1					255
Weight decrease of weight 19 216 20 110 72 13 88 287 800 83 61 113 81 10 85 294 13 803 202 450 348 45 438 1,496 438 43	S (
Second S		Weight decrease of weight Stationary	19 800	216 88	20 61	110 113	72 81	13 10	88 85	287 29 4
Successful A.P. continued	arge	Temperature Abnormal	689	243 554	60 98	105 312	139 246	23 15	87 205	613 612
Successful A.P. continued 637 229 180 232 279 58 101 1,000 A.P. failed 287 207 80 52 37 6 25 25 25 25 25 25 25 25 25 25 25 25 25		became negative	1,000	339	105	101		30	81	6(9 7/0 128
Died 170 75 57 44 12 4 48 67 Ability to work full work 1,364 406 129 271 255 21 333 1,3 6 Average duration of stay in days 170 167 155 116 95 235 90 120 Patients stayed 6 months or more 919 223 130 119 199 39 68 636		Successful A.P. continued A.P. failed	287	207	80	52	37	6	26	1,0°0 255 1,490
Ability to work full work 5 22 3 15 19 21 - 67 1,364 406 129 271 255 21 338 1,3 6 400 543 73 225 201 22 139 608 139 139 139 139 139 130 14	Condi	,, worse stationary	86 334	47 257	22 61	46 192	60 81	9 9	43 100	178
Average duration of stay in days 170 167 155 116 95 235 90 120 Patients stayed 6 months or more 919 223 130 119 199 39 68 636		Ability full work partial work	5 1,364	22 406	3 129	15 271	19 ¹ 255	21 21	338	67 1,3-6
Patients stayed 6 months or more 919 223 130 119 199 39 68 636		incapable					0.0			120
							to 6	-1		636
			1,020	823	132	436	288	29	457	1,473

12,307 LOLY Cases 33 ASWAR 282 72.- POSITIVE T.B. CASER NOTIFIED BY THE CHEST DISEASES DISPENSABLES ACCORDING TO RESIDEROR - DURING 1951, Qens 220 Gerga 4 9 718 *uisaA 300 Minia Rayoum භ **ග** 293 Beni Snet 426 WZI D 139 Kallubla 405 Sherkis 260 242 910 Dakahlia 278 326 Meneuila 98 Houadia 1,240 Gh rbia Behera -lanaO & xon8 siliamel 63 Port-Said Darnietta 6000 දින ද 351 Alex. 47. 3000 Calro Shebin el Kom... . Mohalla el Kobra . 0 0 Dispensary Boulag... Marg ... Mobtadayan Damanhour Alexandria Mansoura Beni Suef Suez ... Damietta TOTAL Minie ... Assint ... Cena ... Fayoum ASWAR... Port-Said Zifta ... Khalifa Lagarig Souhag Sherbin Mellawi Baccus Tanta

TAPLE NO.

TABLE No. 73.—Cases Reported Dead to The Dispensaries During the Year 1951
According to Ages

					1			
Dispensary		1—5 Years	5—15 Years	15—25 Years	25 - 3 5 Years	35-45 Years	Above 45 Years	TOTAL
Boulaq	• • •	7	8	11	21	20	7	74
Mobtadayan	•••	4	7	48	50	15	12	136
Khalifa	• • •	4	46	77	80	61	36	304
Marg	•••	_	-					-
Damanhour	• • •		2	12	19	18	7	58
Alexandria	•••	2	10	8	5	5	2	3.3
Baccus	•••	2	_	7		2	1	12
Tanta	•••	1	2	6	9	7	3	28
Mansoura	•••		1	16	26	7	2	52
Shebin el Kom	•••	1	1	24	25	9	10	70
Mehalla el Kobra		3	5	18	34	19	5	84
Zagazig				3	5	7	1	16
Damietta	•••	13	7	5	4	11	12	52
Port-Said	•••	3	6	23	17	27	11	87
Sherbin	• • •	1	2	1	5	8	5	22
Zifta		1	2	22	9	5	3	42
Suez	•••		7	18	6	. 11	9	51
Fayoum	•••		2	19	38	25	12	96
Dani Suaf		enteright-		9	16	` 17	4	46
Minia		1	3	15	17	8	12	56
Mellawi	• • •		1	6	13	7	5	35
Assiut		2	1	6	23	6	5	43
Souhan		2	4	16	8	4	7	41
Oone		1		6	15	2	3	27
Agwon		_		1	4	4	- 1	10
TOTAL	• • •	48	117	377	449	305	175	1,471
10TAL	•••	48	117	377	449	305	175	1,471

TABLE No. 74.--Progress of Units attached to the Section from 1929 to 1951

						1	1			
-	Year			Chest	Diss. Dispens	saries	Chest	T.B. Bone		T.B.
	legi			Dispensaries	Branches	In-Patient Sections	Sanatoria	Sanatoria	Preventoria	oonvalescent
1929		•••	•••	2	_	_				
1930	,		• • •	3		_	en-fabrouring	_	encompagne.	-
1931	•••	• • •	• • •	3	_	_	-			_
1932	•••	7 0 0	•••	3			_	_		_
1933	•••	•••	• • •	4		·-		-		t piller agans
1934	•••	•••	• • •	4	enadross _a .		1			- Parkers
1935	•••	•••	•••	5.	_		1			
1936	•••	•••	•••	6	enatras,	-	1	1		
1937	•••	•••	•••	8	-		1	1		-pears
1938	•••	•••	•••	12	-	2	2	1	1	
1939	•••		• 4 ,	13	-	2	2	1	1	_
1940	•••		• • •	14		4	2	1	4	-
1941	•••		• • •	14	1	4	2	1	4	
1942	•••	•••	• • •	15	3	6	2	2	4	***************************************
1943	•••	•••	• • •	15	3	6	2	2	4	
1944	•••	•••		16	4	. 8	3	2	4	1
1945		•••	•••	17	4	10	3	2	4	1
1946	•••	•••	•••	19	12	12	4	2	4	1
1947	•••	•••	•••	19	14	12	5	2	4 .	1
1948	•••	•••	•••	21	15	13	5	3	4	1
1949	•••	•••	•••	24	17	15	5	3	4	1
1950	•••	400	, •••	25	17	17	5	3	4	· 1
1951	•••		•••	26(¹)	17	17	5	3	5	1
				1					1	

⁽¹⁾ Including a mobile unit for mass radiography survey.

Table No. 75.—Annual Return of Beds Available in the In-Patient Units at the End of the Year 1951

1											
Unit	1st (Class	2 <u>m</u> C	ass	3rd Class	Paying	3rd	Class Gr	atis	Beds for Sur-	TOTAL
O ALL	F.	M.	F.	M.	F.	M.	F.	M.	Children	gery	LUILL
Description of the Control of the Co											
)								
Almaza Sanatorium Abbassia Chest Dis.	-	5		82		132	_	520		128	867
Hospital			31		62	and the state of t	315		81	37	526
Giza Sanatorium								155	1		155
Alexandria Sanato-					· pay		770	7 107			000
rium Mehalla el Kobra				2	7	14	112	171	4		283
Sanatorium	Market and a		2	6	3	6	52	106			179
Suez Chest Diseases											
Hospital		_	1	1	2	2	22	. 22			50
Damanhour Dispensary						6	26	72			104
Tanta Dispensary						-		20			20
Mansoura,,		-	-				10	15			25
Shebin el kom,,				(manyan-shring)		Photograms	9 30	11 36			20
Zagazig ,, Damietta ,,			2	2	4	4	69				66 1 50
Sherbin ,,				de pris	1	1		30			. 30
Zifta ,,		-					-	26			26
Fayoum ,,							10	30 15			30
Beni Suef ,,				(many-servery)		-	6	13			25 20
Mellawi ,,							17	18			35
Assiut ,,							25	50	1		75
Souhag ,,							4 7	20 15			24
Aswan Maritime Sanat.Port	_							10			22
Said (Pulmon.T.B.				2	8	11	31	89			153
Bones)	— .					-	2	2	3		7
Maritime Sanat. Alexandria							24	25	51		100
Bones Hospital,							21	210	91		XVV
Helwan			1	3	4	· 12	60	65	55		200
Helwan Prevento-				,					00		
rium Marg Preventorium			-						90 50		90 50
Port Said ,,			t-may-record		[mag-record)	(many-sample)		Salar-sanip.	50		59
Mellawi ,,	-		-		-				50	- /	50
Assiut Prevento-						and the state of t			50		P C
rium Village Settlement	- Inches						-		50		50
at Marg				-	_						77
											families
Total	_	5	37	98	90	187	831	1,596	496	165	3,559

Table No. 76.—Account of Expenses of the Chest Diseases Units During the Year 1951

		Equip. Instru-		Rent, Water,		B.5°		Co	ntribu	tions
Unit	Salaries	ments & Drugs	Diets	Light & Sewage	Transport	Miscellan. Expenses	Total	Sums .	Paid	No. of families
	L.E.	L.E.	L.E.	L.E.	L.E.	L.E.	L.E.	L.E.	M.	
Boulaq Disp. Mobtadayan	_	434			1,326	37	1,797	7,706	140	467
Disp Khalifa Disp.	4,909 2,520	,	32 9	257 253			11,661 3,882	6.397 10,597	319 910	473 263
Damanhour Disp Alexandria	3,565	746	6,680	1,255	164	388	12,798	1,742	629	202
Disp Tanta Disp.	1,555 $2,088$	156 1,168	979	55 129			2,056 4,445	,		180 75
Mansoura Di- Shebin el	2,255	400	1,593	270			4,571	1,346	100	223
Kom Disp. Mehalla el	1,864	216	1,114	368		89	3,652		008	83
Kobra Dis. Zagazig Disp. Damietta Dis.	1,276 4,750 5,772		$ \begin{array}{c} 4 \\ 3,954 \\ 7,647 \end{array} $	152 428 102	15	206	1,939 9,352 14,099	1,120		143
Port Said Disp Sherbin Disp	6,092 1,395	1,076 408	7,475 98	339 96	95	399	15,476 2,149	1,493	682	145
Zifta Disp. Suez Disp.	2,051 $2,501$	9	1,818 2,968	314 72	28	136	5,156	351	991	81 56 108
Fayoum Dis. Beni-Suef	2,013	689	1,825	181			4,972			102
Disp Minia Disp. Mellawi Disp.	1,855 $1,652$ $2,065$		1,488 1,114 2,137	196 279 788	57	42	5,037	559 1,020 735	574 110 888	90
Assiut Disp.	2,736		3,354	313)		8,646	1,781	295	
Souhag Disp. Qena Disp.	1,506 1,096		1,312	320 111	43	2	4,133 1,252	586	265	33
Aswan Disp. Almaza San. Abbassia	1,561 34,483	94 202	1,430 57,261	366	20 6	2,821	3,512 94,773		674	53
Hospital Giza San	21,524 2,282		31,228 6,157	1,706	400	173	65,722 8,439			
Alexandria San	5,324	4,276	13,853	485	5	371	24,314			of the same of the
Mehalla el Kobra San. Alexandria	6,187	4,000	10,804	2,400	220	342	23,953	8,498	928	
M.S Helwan Bones	3,664	2,455	4,321	156	10	217	10,823	(fo	r clo	thes)
Hospital Helwan	8,632	28	11,023	606			20,633	`		
Preven Marg Preven	2,665 340		1,552 351	gamaga ay	17	20 22	4,408		_	
Assiut Preven Marg C. Set.	10,440		548 1,410	93 80		57 139	1.971 12,301			
B.C.G. Vacci. Campg	5,943			750	1,069	6,181	13,943			
Total	159,304	38,707	185,539	12,920	6,229	15,357	417,556	57,956	174	3,664

Table No. 77.—An Annual Detailed Account of Receipts of the Units

During the Year 1951

Unit	Treat:		Depos from Pa			s of icial ments	fre	osits om aetors	Sold Pu	ieles l By blie etion	Misce eou rece	JS	Тот	AL	GRAI Tot.	
	L.E.	M.	L.E.	M.	L.E.	M.	L.E.	M.	L.E.	M.	L.E.	M.	L.E.	M.	L.E.	M.
Almaza S.	13,240	300	2,244	_	10	710					41	686	15,536	696		
AbbassiaH.	6,237	800	1,065			430	6			,	131	738	7,440	968		
Giza S									_		_	-		_		_
Mehalla el Kobra S.	1,174	400	222	_		430	4	220	30	400	33	684	1,460	914		_
Alexandria. S	496	600	168				4	220			17	718	686	538		_
Suez H	332	200	69				3	100			26	464	430	764		
Damanhour	204		87		1	720	8		_	_	15		315	720		-
Damietta H	228	200	60		1	840	11	300	and places		32	760	334	100	_	_
Port Said M.S	787	400	141		. 3	870		_			37	274	969	544		
Helwan Bones H.	612	600	428		-	500				_	47	780	1,088	880	_	
Total	23,313	500	4,484		19	500	32	620	30	400	384	104	28,264	124	28,264	124

RECEIPTS OF THE VARIOUS WORKSHOPS AT THE TUBERCULOSIS CONVALESCENTS SETTLEMENT AT MARG

	Carper Work		Taile Work	ors shop	Shoema Works		Tinsn Work	niths rshop	Broo Work	oms shop	Miscella recei		Tota	L	L.E.	M.
	L.E.	м.	L.E.	м.	L.E.	M.	L.E.	М.	L.E.	М.	L.E.	M.	L.E.	M.		
Marg C.S.	247	240	244	400	1,036	300	137	516	39	724	1,040	743	2,745	923	2,745	923
			٠												31,010	047

K																P
		Bemarks														
		Bein														An original to the state of the
							,									
	Sanst.	Contacta				1	1	1	1	1	1	1	1	1	11	
	Referred Sanst.	Convales.	1 2	1	1	1	- 1		-	1	67	1	1	1	9	-
ł	Disoftarged	Contacts		1	-	1	- 1	1	1	හ	ı	1	1	द्य	7.0	-
	-	Convales.		1	1	1	- 1	1	1	-	1	1	1	20	9	
	Occasiona! Diseases	.a .A	4	, TO	<u>.</u>	4	12	6	7	00	00	<u></u>	67		64	
	0000	Olnio	125	95	137	126	143	64	121	63	80	65	82	35	1136	
		Other Relatives		1	1	1	1	1	1	1	1	-		1		
	contact.	Total2		1	1	1	1	1	1	1		1	1	1		
1	to 000	Brother		1	-	1	1		1	!	1			I		
		uog	1			-	1	1		1	1	22		1	65	
	Relationship	eliW				-		1	1		1	-	1	1	pled	82 1 6 77
	24	Mother	1	Ì				1	1			1		-	1	
-		TedtaT	1	-		1	1	1	, 1	1	1	1	1			
	enta Treat.	Convalesc	1	<u> </u>	1	1	1	Ì	1	Ì		1		-		
	nte e	TedtO Trisubal		-	İ	Ī	ĺ	Ī		1	-		-	I		951 he year "Dec. "951
	alescer	Peasant	1	1	1	<u> </u>	1	-	.	1	,1	1	1	1		
	f conv	Shoemaker	-	-			1	1	1	-		—	-			January I during 3d 31st
	Occupations of convalescents.	dingaiT	1	-	1	1		İ	1	İ	.	1	1	1		
	ccupat	TollsT		-	-		1		1	1			1	1		on 1st Je admitted disobarged remaining
-	0	Carpenter	-	-		-				1			-	1		
	ıts	Ароуе 50 Втаву		1		1	-		-	1	1	-	1			Convaléscents
	convalescents	40 49 E189 X		<u> </u>						1	-	-	-	1		of Con
		80-39 8189X	-	-			1	ľ	-	-			-			0
	Ages of	20—29 Xears	-		-	1		-	1	-	1	1		1		64
-		Below 20 Years		<u> </u>						1			1			
	Wen	to , oli				 	<u> </u>	:	:			•	<u>.</u>	-:-		
			•		•		:	•	:	•	:	•	•	•		
4		4		•	•	•	:	:		•		•	•	•	A.L.	
		Month	Jamary	February	March	April	May	June	July	August	September	October	November .	December	TOTAL	
W.		(J	124	A	4	M	2	7	4	Ø		H		()	

TABLE No. 78,-Annual Return of Cases Admitted to Marg T.B. Convalescents Colony During the Year 1951

						•									N	EW (HILD	REN
																Ages		
	Children	Less the		1-2 Yea		2- Ye	3 ars.	Year		4-5 Yea		5-6 Years.		6-7 ears.	Yes	8 ars.	Yes	
Preventorium	No. of New O	M.	F.	М.	F.	M.	F.		F.	м.	F.	M. P	*. M	. F.	M.	F.	М.	F
Helwan			13	5	1	1		2 6	2	3	1	4	4	2	3		1	
Marg Port-Said						-	L -	_	2	4	ı			_	1	5	4	1
Mellawi	-	3 -	-			-	2 -	_ 1	-	3	4	6	2	3 -		4	4	4
Assiut	. 10	3 2	_	1		2 -	-	1 2	-	1	2	1		1 .		1 -		1
Total	17	6 23	13	6		3	4	3 9		11	8	13	6	9	4 1	4	9	6

Number	of	Children	on 1st. January 1951	. 4
	,,	9.9	admitted during the year	. 8
,,,	٠,	99	discharged,,,,,	5
**	,,	**	on Dec. 31, 1951	7
				1

N.B.—Port-Said Preventorium started work within the

Table No. 80—Annual Return of Cases Treated in Alexandria Mariti

OUT-PATIENT SECTION Old Patients New Patients Treat-Cases Cases No. of New-Patients Ages ment Minor Operations T.B. Bones of Joints Ult. Violet Electricity 5-10 Above T.B. Bones o T.B. Spine Other Dis. T.B. Spine of Old UNIT Other Dis Under 5 years. Rickets 10 years. years F. F. M. F. M. M. Alexandria Maritime Sana-65 69 134 383 6 153 177 67 53 233 38 21 95 13 21 274 32 torium Port-Said Maritime Sanatorium Helwan 253 251 449 1,050 245 433 368 336 108 76 961 Bone Hospital 1.433 318 322 583 233 .433 403 398 610 421 13 53 1,000 TOTAL

				Alexandria	M
Number	of	patients	On 1st. January 1951	96	
94		99	Admitted during the year	178	
22	"	9-9	Discharged ,, ,,	160	
99	,,,	99	On Dec. 31, 1951	114	

ED															Dis	BARRA	attac	ked (hilda	ас	OLO é		
		1		De	tails	regar	ding	relati	Y63			Manto	oux I	est			their				Child Disch	arg	
0 rs.	More 10 Y			Rel	ation			(Condi	tion		in	child						1		ed		arks
F.	М.	F.	Father	Mother	Brother	Sister	Othere	Died	Alive	Sputum Neg.	X-Ray-Pos.	Positive	Negative	Not Done	Skin	Stomach	Enteritis	Ophthalmia	Chest	Other diseases	Discharged	Died	Remarks
1	1	1	33	3 9			9	8	73	9	72	4	7	60	18	23	71	2 3	4	69		15	
_	_		5	-	1		-	-	6		6			6					_	2		-	
_		_	12	3	5			-	20	20	_	30	_	_	_				_	_	16	-	
9	3 7	3	16	24		_	13	8	45	37	16	53	_	-	1	1	2	15	1	11	37	1	
	1		. 8	8		_	_	3	13	16		2		14	3	-	-	39	-	13	32	2	
	4 9	4	74	74	6		22	19	157	82	94	89	7	80	19	24	73	77	5	95	140	18	

darg	Port-Said	Mellawi	Assiut
44 6 17 33	- 20 16	6 53 38 21	34 16 34 16

ritime Sanatorium from June 24, 1951.

IATORIUM AND HELWAN HOSPITAL FOR BONE DISEASES DURING THE YEAR 1951

				N	ew Pe	atient	6						I	Discha	arged			Tre	at.	80	80			•••
1			Age	•						oints	99	arged		F	tesult					Operations	ration	er	Ray	ein In
TOASTITE	Unde Yea		5- Yes		abo 10 Y		T.B. Spine	Т.В. Къее	T.B. Hip	Bones of Joints	Other Discases	of Pat. Discharged	Died	Cured	Stationary	Improved	Discharged. in Plaster	Electricity	Ultra-Violet	Major Ope	Minor Operations	Plaster	X X	Streptomycin Inj.
U	М.	F.	М.	F.	М.	F.				T.B.	0	No. of			Str	In	Disc	By]	By C					
18	8	17	33	22	64	34	76	20	44	36	2	160	6	28	34	58	3 4	_	21	31	_	169	510	7023
4	_	_	_	_	3	1			4	_		6		1	3	2	— ,	_			_			300
12	16	6	44	36	233	177	198	32	45	24	21 3	520	14	228	146	93	39	_	60	43	5	426	1.235	7,629
94	24	23	77	58	300	212	274	52	93	60	215	686	20	257	183	153	73	-	81	74	5	595	1,745	14,952

IN-PATIENT SECTION

Port Said M.S.	Holwan B.H.
4 4 6 2	210 512 520 202

d has 7 beds for Bone Diseases

					and the same of th					4-1				
	ing sary)									(New	T.B. C	lases in	the Dia	pensary)
	es Seeking (Dispensary)	T.	B. Case		308808							Age (Froups	
Dispensary	New Cases Seeking Treatment (Dispensar	Total	Sputum +	Rays +	r Chest Diseases	Fro 1-: Yea	9	Fro 10-1 Yes	19	Fro 20- Yes	29	Fro 30- Yes	39	From 40-49 Years
	Tre		18	×	Other	м.	F.	м.	F.	м.	F.	м.	F.	М.
1	2	8	4		6	. 7	8	9	10	11	13	18	24	15
Boulaq	7,576	1,624	695	929		140	112							85
Mobtadayan	15,082	1,086	666	420	13,996	50	30	104	59	259	104			87
Khalifa	10,977	1,073	630	443	9,904	9	11	84	91	214	164			91
Marg	160	18	12	6	124	1		1		5	3			2
Damanhour	8,585	475	472	3			9	44	-31	153				50
Alexandria	6,603	660	468	192		18 21	13 15		54 20	197 93	63 35			47
Baccus	6,868 8,610	341	221	120] 128		21	3	,37 37	13			52 83		24 31
Mansoura	8,712	337	257	80	8,248	5	3	37	13					46
Shebin el-Kom	8,561	312	177	135	8,249	5	6			87	30			30
Mehalla el-Kobra	9,024	421	312	109		9	5	37	27	98		115		37
Zagazig	11,631	423	316		11,218			21	21					
Damietta	10,129	1	343	289		17	19							45
Port-Said	6,428	563	218	345		1	38	54	40			92	30	48
Sherbin	8,185	343	240	103	7,842	12	12	21	21	80	34	67	40	32
Zifta	4,695	275	176	99	4,420	12	10	. 33	13	51	32	53	29	15
Suêž	2,752	197	151	46	2,555	3	2	13	15	60	25	48	7	8
Fayoum	6,208	313	276	37	5,830	2	4	18	3	66	· 25	77	47	41
Beni Suef	4,306	237	198	39	4,068	3	3	9	10	34	15	41	35	43
Minis	6,022	293	54	239	5,729	1	3	15	12	38	28	50	42	52
- Mallewi	9,511	356	118	238	9,155	8	5	23	12	34	22	75	41	56
Assiut	9,229	386	197	190	8,842	17	14	26	22	81	62	47	4 5	16
Souhag	6,174	199	104	95	5,887	4	4	15	13	40	22	27	18	16
Qens	3,237	250	175	75	2,987	6	3	12	10	69	16	61	20	27
Aswan	1,608	140	75	65	1.468	2	1	8	5	32	22	31	. 11	13
TOTAL :	180,873	11,307	6,785	4,522	169399	411	319	996	718	2,574	1,241	2,050	913	972

DISPENSARIES DURING THE YEAR 1951

ente	Admitted	To	Sanatorium)
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					Prof	essions			D	oisp.		Classe	es (Sanat	t.)
		Years	Vendors	Officials	Workmen	Peasants	Students	No. Occupation	Cases Recorded for San.	Cases Admitted To Sana.	Ist.	2nd.	3rd Paying	3rd Cratis
	18	20	91	22	23	24	25	26	27	28	29	30	31	82
21	. 18	10	78	162	404	00								
25	16			112				787				_	-	
22	7			141				425				districts	-	-
	-			2		143	122.	269			-	-	-	_
5	5		18	34			_	6			_	-	-	_
1	1		47	. 72		170	9	131	365		******		27	285
2	4	,	18	33		25	5	229	512	479		-	-	-
8	3	Î	20	27		19	9	133	143	167	-	_	-	-
1		1	18	19	101	80	18	116	236	183	_	-	_	69
7	6	2	18	19	91	107	7	95	241	174		-		47
6	7	. 2	14	19		89	7	111	145	60		_	_	43
4	4	_ ~	20			112	13	126	251	191		_	_	
2	7	1	11	7	127	132	5	121	200	198	_		_	155
2	8	1			76	254	7	277	807	879		_	18	861
7	5	2	10	42	186	22	39	233	580	540	_	6	45	489
3	2	4	8	14 12	44	135	9	131	192	75	-			_
	1	1			57	61	16	12]	69	123		_	-	88
7	3		12 25	21	97	6	3	58	127	66	******	_	23	43
8	3	2	6	20 21	49	117		101	97	86	-		_	85
0	11	5	7	12	40	64	6	100	104	75	_		-	75
3	8	7	7	7	46	92	5	131	175	58	-	_		58
7	10	1	12	28	39	158	1	144	284	80				78
8	5		4	20	31	135	19	162	237	139		-		139
7	2	1	11	18			6	77	217	86	-		_	76
	. 5	_ 1	3	19	33	75 32	13	67	105	34	-	_		***************************************
				19	33	32	4	49	142	78				78
4	141	. 50	671	882	2,854	2292	408	4.200	7.914	5,957	-	6	113	2669
		1		,				-				1	'	

TABLE No. 81.—ANNUAL RETURN FOR

	New Con	itacts (Di	sp.)	tion			Sputum	Examination	ac
Dispensary	Children	Adults	T.B. Contacts	Cases under Observation (Disp)	Haemoptysis	Total of Sputum	Sputur of New C		· Sputum of Old Ca
		3	H	Cases		Tot	No.	Pos.	No.
]	33	34	36	36	87	38	39	40	41.
				111	5 3	1,977	1,739	695	238
Boulaq	248	- 186	16 34	305	36	3,450	2,631	666	819
Mobtadayan	449	442	66	36	24	2,199	1,561	630	638
Khalifa ··· ···	463	448				23	18	12	5
Marg ··· ···	7	3	12	31	116		623	472	276
Damanhour	166	140	3	92	_	995	888	468	107
Alexandiria	106	104	19	86		1.065	653	221	412
Baecus	151	132	3	100	13		532	234	251
Tanta ··· ··· ···	137	95	5	72	13	,	641	257	383
Mansoura	21		5	170	30		445	177	64
Shebin el-Kom	45	99	9	181	_	823	624	312	199
Mehalla el-Kobra	213	263 299	8	207	36		839	316	641
Zagazig	195		3	110	11		954	343	484
Damietta	254	316		271	58		726	218	1,084
Port-Said	9	163	11	38	23		491	240	63
Sherbin	85	129	16	125	29		327	176	269
Zifta ··· ··· ···	121	129	10	146	1		402	151	440
Suez	100	130		65	5		417	276	341
Fayoum	42	89 89		67		5 843	556	. 198	287
Beni Suef	85			291		7 521	340	54	181
Minia	89			92		6 562	387	118	175
Mallewi	44			307	10		626	197	640
Assiut	128					372		104	124
Souhag	59	2		8		297		175	30
Qena	19			16		7 252	106	75	146
TOTAL	3,229	3,838	263	3,011	67	25,338	17,041	6,785	8,297

DISEASES DISPENSARIES DURING THE YEAR 1951. (continued)

	X-1	Ray Ex	aminati	ao		E	cam. of	f (Sanat)		Old (Cases (Die	ip.)		Visits	(Disp.)
AL OF X-RAY	Now (Cases	Pos.	Un Obse	der	Teeth	Nose	Thross	Ears	TOTAL	T.B. Cases	er Observation	Contacts	r Chest Diseasos	Nurse Visits	M.O. Visits
TOTAL	No.	Pos.	No.	No.	Pos.	3				4		Under		Other	4	
44	44	45	46	47	49	49	50	81	52	53	54	85	86	1 67	5.8	59
											`					
2,174	1,925	1,470	230	19				_	_	5,418	3,692	910	408	408	4,632	379
1,862	1,824	363	33	5	2		<u>·</u>	_		18,910	8,766	1.546	1.223	7,375	3,804	444
1,521	1,149	927	47	325	74			_		11,384	7,578	1,113	1,120	1,573	1,730	300
14	14	13	-	-	_	_		-		32	20	-	_	12	_	_
679	472	472	207	-	-		_		<u> </u>	8,868	3,512	331	183	4,842	1,200	635
961	948	590	13		-					5,31%	4,292	586	179	255	1,968	408
-	-		-	-		-		-		7,843	2,458	344	36 0	4,681		
530	447	314	74	9	Olivering .	_	_		_	8,537	3,638	571	322	4.006	1.467	350
306	188	110	95	23	1		_	_	_	3,112	727	21	164	2,200	1,541	378
179	104	100	73	2	1	_			_	5,645	3,081	1.204	13	1,347	1,489	362
961	594	412	92	5			_			8,962	6.627	640	449	1,246	1.830	580
511	242	165	264	5			_	_	_	10,693	4,813	521	383	4,976	1,474	334
1,889	1,094	756	608	187	3	126	-		_	6,998	4,018	237	295	2.448	973	647
1,102	415	309	827	60			Same	_		3,100	2,186	672	54 2		936	464
21	10	10	11	_	_`		/			3,629	1,884	166	167	1,412	1,028	299
357	213	124	129	15	1	_				9,256	4,304	28		4,924	587	168
722	185	131	5 16	21						2,130	1.296	297	177	369	794	579
263	94	72	164	5	_	_		_		4.838	1,801	98	2	2,937	2.304	770
_		одинир		Olf-mails	_	_		-		5,319	2.602	567	475	1,675	496	60
817	535	209	244	38		_	_	_		10,141	3.612	1,939	472	4,118	1,566	283
662	520	329	142			_	<i>→</i> .	_		1,359	1,097	262	_		1.295	469
1,295	902	565	386	7	1	_		_	_	7.139	4.371	727	613	1.428	1,542	609
258	185	127	66	7	1	_	_			5,796	2,239	393	62	3,102	1,026	391
140	117	79	21	2	_	_		_		2,769	1,053	35	41	.1,640	641	366
2	1	1	1	_	_	- \		_	_	2,431	1,003	42	33	1,353	414	185
16,956	12.178	7,648	4,043	735	84	126			Throate S	159,630	80,670	13,250	7,383	58,327	34,737	9,460

TABLE No. 81.—ANNUAL RETURN FOR CHEST DISEASES

								•			·				
				Disc	harged	Pasient						2	Creatmer.	t	
		qo	989					Abil	by of W	7ork	d		800	1ent	ent
Dispensary	ToraL	Sputum on	Discharge	Improved	Stationary	Worse	pe	ę.	-	Đ	Streptomycin Injections	, pi	Injections	Exercise Trestmens	General Treatment
	ů.	(Sp	A	Imp	Stati	M	Died	Complete	Partial	Unable	trept	Gold	Other I	clse .	ral 1
		Pos.	Neg.					ဝိ		ר	Ď		04	Exer	Gene
	50	63.	42	43	44	45	45	67	68	69	70	71	72	78	74
Boulaq		_			_	_		_	-			-		_	-
Mobtadayan		_			-					- ,		_	-		-
Khalifa	-				_		64-100		_		_	-	-		-
Marg	_					_					-		_	-	-
Damanhour	251	142	109	150	58	36	7	1	137	106	3.557	11	4.472	621	939
Alexandria	1-										_	_	-		-
Baccus	-	_	. —				_				_	-	. —	_	_
Tanta	68	40	28	47	16	4	1	3	30	34	480	100	492	_	-
Mansoura	46	18	28	22	10	12	2		26	18	367		252		-
Shebin el-Kom	38	25	13	17	18		1	_	17	20	145	-	200	-	-
Mehalla el-Kobra	-	_				_		_	-				163	-	-
Zagazig , ,	147	84	63	8 8	42	15	2		83	62	-	-	-	-	78
Damietta	866	201	665	865	142	51	8		665	193	8.975	-	1.217	. —	-
Port-Said	525	232	293	334	100	43	48	_	33 8	139	427	-	3.627	28	34
Sherbin ,	-	-	_				_	_	-	_	-	-	5	-	_
Zifta	85	46	39	42	35	3	δ	_	40	40	_	_	260	-	-
Suez	68	23	45	• 46	9	9	4	,—	42	22	1,312	-	1,043	-	493
Fayoum	90	5 5	35	74	14	2		1	68	21	1.056	64	291		
Beni Suef	76	26	50	52	15	8	1	1	59	15	320	-	58	-	
Minia	54	16	38	44	7	2	1	-	23	30	1.890	59	499	_	
Mellawi	87	16	62	60	11	6	1	48	20	9	437		251	-	25
Assiut	152	24	128	187	5	5	5	. 8	129	10	3,745	-	2,252	-	-
Souhag	. 78	52	26	55	13	8	4	. 5	41	28	2.245	151	2:562	37	41
Qena	-	_			-	-	-			_	-	_	_		
Aswan	80	35	45	46	18	6	10	Opheren	48	22	42				-
TOTAL	2.702	1,035	1,667	1,879	513	210	100	67	1.766	769	24998	205	17,644	686	1610
TOTAL		2,000		1,000	010	710	100		- 100	100	71330	300	401022	300	, ,

IES DURING THE YEAR 1951 (continued)

				Oper	ations	1						
	leural thorax	al olysis	erations	Extrap Pneumo	oleural	othorax	lasty	yomy	Lung	app or	Refused admission to Sanatorium	Died
notanpur	Refills	Internal Pneumonolysis	Phrenio Operations	Induction	Refils	Plombage Oleothorax	Thoracoplasty	Thoracotomy	Pleural Lung Drainage	Bronchoscopy or Bronchography	Refused to San	→
10 1	77	78	1 79	10	81	<u>Pi</u> 1	83	84] 85	84	87	
-	3,618	Gaderatio	_		_	_		_		_	22	74
	3,472	_	_	_	125		_	_			62	136
-	3,224		_	Саларичници				_	-		17	304
-	_	_	-	_		Character		_	Charmen	_		
298	3,701		246			37	_	_	_	_	\$8	. 58
-	2,211		_	_	-	_		-	_	_	38	32
	_		_	_	_	- Chinesen		_	-	-	-	_
39	1,810		_		_	Cincon		_	-	-	8	28
15	2,187	-	_	-		_			-	- ,	4	52
17	1,045	-			Charmon			_	Chipromp	-	_ •	70
-	1,988	_	-	_	_	_	_	_	Charmen	_ `		84
68	3,471	_		-	_	-	_	_	_		23	16
578	7,080		173	_	_	-		-	-	_	-	52
194	2,488	- Coloniano	-	-		210	_	_	-	_	64	87
_	1,318	_	_	- ,	-	- 1	_	_	Charmen		93	32
51	2.572			- Chapterson	_	discount	-	_			19	42
64	1,941	_			_	_	_	dispresso	_	-	-	51
45	1,297			-	-	_	_		_	_	23	98
43	858	_	-		_	-		Chipromap	_		10	48
21	951	_	<u>-</u>	_	_		-	-		_	35	56
51	1,244	200			_	-	- Contraction Cont	-	_		13	32
75	3,252	discourse		_	_	_	_	_		_	-	43
50	1,583	-	_		1		Character		_	-	7	41
4	484			d	_		Character 1	-		_	10	27
42	728	_	-		_	13	_	entrance)	Company	_	-	10
,654	53,466	200	424		126	260	_	empelija ja	_	_	492	1,471
	1			•	1.	1				1	L	

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Table No. 82.—Annual Return for Sanatoria and Br

													=-
Chest Dispen	sary		ng ary)							Now T.	B. Cases	in th	e I
			pens	T	.B. Cases			eases					
			New Cases Seeking Trustment (Dispensary)		+	+		Chest Diseases	Fro	om -9	From		
Main	Branch	1	tmen	TOTAL	Sputum	RAV	fort			ars	Yea		
		- 1	Tres	President of the Particular of	ndS	1		Other	м.	F.	M.	F.	
													ī
	1 114		918	3	3			915		_	_		_
	ubrakhit osetta		899	_		_	_	899	_	_	_	_	
	afr El-Zaya	,t	941	12	9		3	929		_	2	_	
G:			1,567	7	4		3	1,560		-	2	1	
	enouf	• • • • • •	985	14	6		8	971		1	2	-	
Shebin el Kam {	enha		1.995	25	17		8	1,970			2	3	
	afr El Shei	kh	1,961	17	59		12	1,890	-	_	4	4	
	araskour	• • • • • •	1,521			-	-	1,521				-	
Port-Said II	mailia		1,260	59	29		30	1.201	3	1	8	3	
	ikernes	•••	3,061	29	17		12	3,032	3	1	4	3	
Sherbin { B	elcas	*** ***	57		_		-	57		_	_	_	
Fayoum E	ltsa	•••	456	8	6		2	448		1	2	****	
Minia s	amallout	•••	860	14			14	846		_	1		
Souhag	khmim	•••	963			-	1	957	-	-			
	Gerga	. •••	1,512				4	1.497	-	 -	_		3
Qena	Luxor						10	671		1	2		
	Nag Hamma					3	19	783					
Aswan 1	Kom Ombo	•••	181		3	3	5	173			1		Į.
										Сне	st Dis	EASE	S
			1	1	1	1			1	1	285	Ī	1
Almaza Sanatorium		***	2,02				596			1 58			7
Abbassia Chest Diseases	Hospital		1,09				298	42	6	1 00	46		
5,220	*** *** ***	•••	28				81	-	9	2 29			1
Alexandria Sanatorium							118 125			8 1			
Mehalla el-Kobra Sanato	rium	•••	50	2 50	31		120						-
	Total	, ,,, ,,,	4,60	4,56	3,34	17	1,218	4	2 9	98	794	38	6
			1	1		1	•	3				ln	-Pa
		bbassia		Ale xa ndri Sanat.	III ARIIO	bra		1	Tank	350	asoura	Sheb	
	Sanat.	Hosp.	Sanat.	panat.	Sanat		Damar	nur	Tanta	5181		El Ko	m
No. of Patiants on 1st								46		a l	24		12
Jan. 1951 No. of Patients Admit-	793	460	119	106	10			48	6		47		43
ted during the year No. of Patients dischar-	2021	1091	286	707		02		312		8	46		38
ged during the year No. of Patients on	1939	1046	262	555		87 72	Į	109		7	25		17
December 31, 1951	875	505	143	258		95		155		18	145	1	04
Average stay in days	. 170	167	155	116			<u> </u>						

R CHEST DISEASES DISPENSARIES DURING THE YEAR 1951

F (CHES	T DIS	EASES	DISPE	NSARIE	s Due	RING T	HE YE	AR 19	51.									
r (1	New 1	Patients	admit	ted to 8	Sanatori	um)													
	ps		1							Professi	lons			(Di	sp.)	Cl	28563	(Sana	t.)
Fro 30- Yea	39	Frc 40- Yes	49	Fro 50- Yes	59	Ove 60 Y	er ears	Vendors	Officials	Workmen	Peasants	Students	Occupation	Casos recorded for Sanat	s Admitted o Sanat	23	2nd	d Paying	3rd Gratis
1.	F.	м.	F.	м.	F.	м.	F.			A	d l	02	No	Casc	Cases			3rd	
2 - 1 1 1 6 24 - 15 - 1	-	- - 4 - 1 2 8 - 2 - 1 1 1	_	- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	- - - - - - - 1 - 1		- I			1	1 - 3 5 4 4 25 - 1 13 - 4 2	- - - - 3 - 3 1	1 2 1 7 9 14 — 23 13 — 4 10	- 1 - 1 - 2					
		1	_		•	_	_	_	1	1	1	_	1						
3	1	1	_	2	1		_	_	1	4	2	-	9	1		-		_	
22	12	12	6	3	3	1	_	6	4	17	34	2	25	_				_	
15		1		—		_	_	_	3	18	, 1				_			_	
2		_	(- v	-		1	_	-	_		5	-	. 3	_		-			_

AND	HOSPITALS.
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492	_]	191	-	76	_	12	_	147	303	992	324	186	69	-	_	26	231	335	1,429
	174		45	_	37	_	8	_	4	3		38	1,046	_		_	117	129	845
58	_	32		12	_	3		19	40	175	29	10	13	_	_	-	—	-	286
102	42	57	14	11	2	_	1	17	53	287	21	26	303	e	-	-	3	58	646
71	3 5	21	8	7	2	4		20	37	156	107	25	157	_		D	33	15	454
23	251	301	67	106	41	19	9	203	437	1,613	481	285	1,588	_	_	26	384	537	3,660

vithin Dispensaries

											1
Damietta	Port-Said	Sherbin	Zifta	Suez	Fayoum	Beni Suef	Minia	Mansoura	Assiut	Souhag	Aswan
				4							
141	120	_	23	46	3 0	23	` 16	35	67	23	21
879	540	<u> </u>	88	66	85	75	58	78	139	78	78
866	525	_	85	68	90	76	54	78	152	78	80
154	135		26	44	25	22	20	35	5-±	21	19
79	90	_	87	235	130	141	107	130	151	89	165

TABLE NO. 82.—ANNUAL RETURN FOR SANATORIA AND BRANCHE

15,539

3,347

2,356 20,114

4,575

6,34

Chest Dis	pensary	New	(Disp.)		ation			Sputu	m Exami	nation	
Main	Branch	Childran	Adults	T.B. Contacts	Cases under Observation (Disp.)	Hæmoptysis	TOTAL OF SPUTUM		oum of Cases	Sput Old	om of
				E	Cas		To	No.	Pos.	No.	Pos.
Damanhour	Shubrakhit			_	_	_	32	3	3	29	
Alexandria	Rosetta	_			-	-	-	_		_	_
Tanta ,	Kafr El-Zayat		_	_	2	-	25	24	9	1	
Mansoura	Sinbellawein	-	_	_	-	-	7	7	4	-	
Shebin el Kom	Menouf				1	-	16	16	. 6		
	Benha	-			2		25	25	17	-	
Mehalla el Kobra	Kafr El Sheikh	8	15	_		-	74	69	59	б	
Damietta	Faraskour	_	_	-	7	-		******		-	-
Port-Said	Ismaillia ,		-	_	-	-	57	.56	29	1	t-on
Ch. h.	Dikernes	7	9	1	-	-	51	41	17	10	ж
Sherbin {	Belcas	_		_		-		_		-	-
Fayoum	Etsa	_	_			-	8	8	6		
Minia	Samallout	_				-	-	-	-		-
ſ	Akhmim	5	4		2	_	8	4	3	4	
Souhag {	Gerga	5	4	_	3	_	14	14	8	_	_
	Luxor	_	1		2	_	98	96	82	2	
Qena {	Nag-Hammadi		-	_	<u> </u>	_	19	19	3		_
Aswan	Kom Ombo	_	_	_	-	-	_		_		_
								CHES	T DISEA	ses San	ATORL
					1	1		. 1			
Almaza Sanatorium	444 808 888 886 800		-	_	-	1.313	8,881	2,021	1425	6,850	2,6
Abbassia Chest Disease	es Hospital		-	-	-	190	4,373	1,091	751	3,282	1,2
Giza Sanatorium		-	_	-	-	382	1,030	286	205	744	3
Alexandria Sanatorium	n	_		-	-	319	3,369	675	5 89	2,694	1,1
Mehalla el-Kobra Sana	storium		_	_	-	152	2,471	502	377	1,969	9

TOTAL

CHEST DISEASES DISPENSARIES DURING THE YEAR 1951 (continued)

	x.	Ray Ex	aminat	lon			n	6.45								
							xam.	of (Sana	st.)		Old (Cases (Dis	p.)		Visits	(Disp.
Į	Now	Casos	Pos.	ld Pati	nder	Teeth	Nose	Throat	Ears	Total	T,B, Cases	Under Observation	Contacts	Other Chest Diseases	Nurse Visits	M.O. Visite
ı	No.	Pos.	No.	No.	Pos.							Unde		Other	Z	Ä
1																
15		3	3 1	2	_	-	-	-		1.045	206	23	11	805	102	102
11					-	_	_	-	-	95	95	-			124	109
A A	- 11	[] {			-			prinq	-	678	371	-	_	307	72	36
•		J -		_	-	-	-	_		6			_	6	294	133
3				-	-	-	-	-	-	392	141	74	1	176	80	73
3	3	3		-	-	-	_	-	-	475	197	70		188	83	33
			-	-	-	_	_	-	-	1,113	818	72	45	178	192	192
		-	_	-	-	-	_	-	-	709	_	-		709	463	214
		_	-	-	-	_		-	_		-	-	-	-		Manage .
	_	_	_	-	_			-	-	644	307	48	32	257	84	84
	_	_	-	-	-			_		_ 3	4	-	-	3	10	10
		_	-		-		_	-		182	24	-	-	158	336	336
		-	-	_		-		_	_	1-127	106	73	59	884	106	31
6	6			_	-				_	613	71	2	-	540	31	31
11	11			-	-	-				932	301	11	12	608	86	83
45	43	34	'2		_		_	-		1.030	406	9	9	606	30	60
		-	_			_		-		567	185	1	11	370	-	
1		-	-	h - N	_	-	_	-	_	- 181	42	-	-	139	-	
\mathbf{H}^{0})SPITA	LS (co	nt i ñue	<i>l</i>)			,						ı			
2 3	93	933	3,390		_	560	524	623	512	_ 1		_		_		
25	795	72 5		176		439	567		5 67		-					
28	151					67	59	71	58							
56	614	614		_	_	_	-	_	_	-	_	_				
82	379	37 0	577	2 6		385	283	408	299	-)	_				
14	2,872	2,792	6,940	202	-	1451	1433	1669	1436	_	_		-			-

TABLE NO. 82.--ANNUAL RETURN FOR SANATORIA AND BRAN

Chest Dis	pensary				Diseb	arged Pat	ients	,	,	
Main	Branch	Total	Sputur Disch	m on arge	Improved	Stationary	Worse	Died	Complete	Partial o
			Pos.	Neg.		91		- }	Ď	
Damanhour Alexandria Tanta Mansoura Shebin el Kom { Mehalla el Kobra	Shubrakhit Rosetta Kafr El-Zayat Sinbellawein Menouf Benha Kafr El Sheikh			-						
Damietta	Faraskour		Street		_		-	_	-	_
Port-Said	Ismailla	_	-	-	-	-	_	-	-	_
Sherbin {	Dikernes Belcas		_ ^		-	-	_	-	-	_
Fayoum	G all and						_	_	_	· —
Minia \cdots Souhag $\left\{\right.$	Awhmim Girga	_	-	-	<u>-</u>	-	<u> </u>	-	<u>-</u>	-
Qena $\left\{ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Luxor	_	- - -	-	- -	- -	-	- - -	_	- -
	1		3				Сн	EST DIS	EASES	San.
Almaza Sanatorium		1.939	877	1062	1,349	3 3 4	86	1 1	5	
Abbassia Chest Disea		1,040	607	439	667	257	47	75	22	40
Giza Sanatorium		. 262	137	125	122	61	22	57	3	12
Alexandria Sanatoriu	ım	55	350	205	273	_ 192	- ▲6	44	15	27
Mehalla el-Kobra Sa	natorium	48'	7 246	241	334	81	60	12	19	2.5
	Total	4,28	9 2,217	2072	2,745	925	261	358	64	2;4

ST DISEASES DISPENSARIES DURING THE YEAR 1951 (continued)

Trea	atment								Operat	ions						• 1	77)
Gold	Other Injections	Exercise Trestment	General Treatment	Aspirations	Inductions	orax		Phrenic Operations	Induction	aral norax	Plombage, Oleotherax	Thoracop!asty	Thoracotomy	Pleural Drainage	Bronchoscopy or Bronchography	Drainage	Other Operations
	-	_		_		44				_	_	_			_	Grando	_
	Фанулій						_				_	_		_			_
	_	_	_			_	_	_			_		_	_	_	_	7
١. ١	9	_	Committee	_	01-11110	214	_		_		_	·_	_	_ _		_	_
	_	_	contractions			81				_		_		_		1	2
_					Commission (_		_	Crismann			_	_		1	_
— — 5		_	_	_	germanish	228	_	-		_ _ _		-		_ _	_	_	_
<u> </u>	_	_		_	1	117 70	-	- Committee	-			_			-		7
-	-	-	-		-	- 1	-			_			_	-		_	r
[OSPI'	TALS (continu	cd)	1 1	•				[ł	1	i	1	1	;		1
-	13,315 10,879		735 5,115			10, 52 5 5,728			6		-	87 29	1		2 44	j	58 4
	2,893 3.839		123 176		353 284			34			-			Gunnings	_	-	Statement of the Statem
	1,153		324 6.473	199	2.60%	3,549 		931	6		321	116	3	2'	7 7	2 :	62
-	32,079	50.9	9.470	A, C NO	10,00	, , , ,	0 1 1	1				1		1			1

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	tal No.	Exam.			1,009	1,549	3,637	6,503	22					086	2,240	3,702	19,856
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Table No. 83.— (Contd.)

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Chapter XIII.—Venereal and Skin Diseases

The total number of new patients attending venereal and skin diseases units and Cairo and Alexandria hospitals during the year was 277,263 as compared with 270,188 new patients during the preceding year or 7,075 more patients than in 1950.

This is indicative of the public's appreciation of the services these units render throughout the country.

Gonorrhoea:

According to tables Nos. 87 and 93 a total of 3,435 patients were found suffering from acute gonorrhoea as against 3,472 in 1950.

The introduction of penicillin and sulpha compounds in treatment has rendered the cure of gonorrhoea possible in one day.

Syphilis:

According to tables Nos. 86 and 92, a total of 1,658 patients were found suffering from primary syphilis as against 1,815 in the previous year.

The use of penicillin procain in all with 2% alluminium monostearate in the treatment of syphilis has given gratifying results.

Other Venereal Diseases:

A total cf 3,192 patients suffered from other venereal diseases as against 3,770 in the previous year.

Technical Works:

Every propaganda means is employed to demonstrate to the public the great evils of venereal diseases.

Pencillin procain has proved effective in the treatment of gonorrhoea and syphilis. This is seen from the falling number of patients attending V.D. units.

Great strides have been made in the control of favus, a wide spread disease particularly among elementary and primary school pupils. X Ray apparatus for the treatment of this diseases have been installed in 26 V.D. units and operated as from September 1950. 7,385 cases of favus have been so treated during the year. No complications were encountered. It is hoped that when all V.D. units throughout the country are equipped with X Ray apparatus, this disease will be stamped out.

Scabies, another wide-spread disease, has been successfully treated by Benzyl Benzoate. This drug has been supplied to all V.D. units and to some 100 rural health centres. Besides, there are two mobile units, one in Minia and another in Sharkia, for the treatment of this disease.

Hod el Marsoud Hospital in Cairo (now called Sayeda Zeinab hospital) and Gabbary hospital, in Alexandria, lock hospitals until 1949, have since that date been converted into venereal diseases hospitals with in-patient accommodation for syphilis and other venereal diseases patients. Each has a special section for the treatment of scabies. A separate section is also provided to accommodate arrested women sent by the police for treatment.

Every endeavour is made to increase the number of units. There are now 41 units in operation beside the hospitals in Cairo and Alexandria.

The venereal diseases prophylactic centre near Ezbekia Gardens provides protection to persons exposed to infection. A special venereal diseases medical officer is in charge of the centre in addition to his other duties.

The W.H.O. venereal diseases demonstration team has this year started its activities in conjunction with the Ministry. These covered Tanta town and surrounding villages and Mehalla el Kobra town. Several thousand people have been surveyed. Some 3% suffered from syphilis. A full report will be submitted on completion of its investigations.

Table No. 84.—New Patients and Visits to the Skin and Venereal Diseases Hospitals During 1951

					0	AIRO H	CAIRO HOSPITAL								ALEXA	NDRIA	ALEXANDRIA HOSPITAL	AL			
		Sy	Syph.	Ğ	Gon,	NIS NIS	Skin.	Other	Other. Dis	Total	le	Syph.	· d	Gon.		Skin	·	Other. Dis	er.	TOTAL	AL
		R	A	Ħ	E	M	F	II.	E	Ħ	F	M	Fi	Ħ	Fi	H	Fi	M	F	M	5 24
	/ Public	18	15	2	00	102	73	,		123	96	15	<u></u>	H	-	158	142	ಣ		100 pm	157
Is-patients	Prostrintes	1	1	1			1	1	1	- Charles		1	496	1	76	!		Mileson de la constante de la	43		2019
	Sailora	1		9		1	1			1	1		1	1	1	1	1	1	1	1	1
	TOTAL	8	1 2		- R	103	£			82	97	10	10		92	13	24.	60	50	200 500 500	732
	Public	39	9	98	9	3 1,803	3 5,040	92	278	2,004	3800	50	100	41	31	3,446	6,141	211	ıç	3,734	6,327
Out-patients	Prostitutes	1	10		10	1	1	1		para-dua-	20		1	Mayanand	1	1	1		1	1	
	(Sailors	1	1		1	1		1					1		1	1			1	1	
	TOTAL	· ·	39	98	98	6 1,803	3 5,040	92	278	2,004	5,405	92	160	41	31	3,446	6,141	2118	13	8, 7, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,	6,327
Tetal of in s	Total of in and out-patients		9	99	88	45 1,905	5,113	. 77	278	2, 127	5,50	7	5 09	\$4	107	3,604	6,283	214	102	3,931	2,000
Number of Visits	•	673	3 995	5 248	376	6 1,390	0 2,861	1	1	2,311	4,232	236	876	78	165	5,156	8,892	283	110	10 10 10 10 10	10,043
the state of the s		-	_		The second		0 0 man-dame														

Table No. 85.—Expenditures During 1951.

	Sala	ries	Equip	ment	Instra Medi		Di	ot	Sundry 1	Expenses	Tot Expen	
	L.E.	Mms.	L.E.	Mms.	L.E.	Mms.	L.E.	Mms.	L.E.	Mms.	L.E.	Mms.
Cairo Hosp.	5,572	820	469	992	962	270	732	536	173	892	7,911	510
Alex. Hosp.	3,354	301	117	5 60	279	176	2,312	875	261	949	6,325	861
TOTAL	8,927	121	587	552	1,241	446	3,045	411	435	841	14,237	371

TABLE No. 86.—New Cases of Syphilis in Venereal Diseases
Hospitals During 1951

		E	ARLY	CASE	S		LATE CASES							Herd		TOTAL	
	Prim	ary	Seco	nd	Тот	AL	Te	rt.	Late	ent	Nerv	ous				1 A L	
	М.	F.		F.	M.	F.	М.	F.	м.	F.	M.	F.	М.	F.	м.	F.	
Cairo Hospital	10	2	16	20	26	22	4	2	20.	33	2	3	5	6	57	66	
Alexandria Hosp.	12	11	14	12	26	23	4	`3	28	564	1	1	12	13	71	604	
TOTAL	22	13	30	32	52	45	8	5	48	597	3	4	17	19	128	670	

Table No. 87.—New Cases of Gonorrhofa during 1951

	-	Ac	ute	Chro	onio	TOTAL		
		M.	F.	M.	F.	M.	F.	
Cairo Hospital	• • •	69	18	19	27	88	45	
Alexandria Hosp.	•••	42	27	_	80	42	107	
	1							
TOTAL	660	111	45	19	107	130	152	

TABLE No. 88.—INFECTED CONTACTS

	Syr	oh.	Gon.			
	M.	F.	M.	F.		
•						
Cairo Hospital	11	3	12	19		
Alexandria Hospital				-		
TOTAL	11	3	12	19		

Table No. 89.—Cured Cases of Venereal Diseases During 1951

			OUT-I	PATIENT	rs	IN-PATIENTS					
		Sy	Syph.		Gon.		Syph.		on.		
Cairo Hospital	• • •	2		86	36	2	4	2	9		
Alexandria Hosp.	***	39	72	40	29	12	472	1	57		
TOTAL	•••	41	72	126	65	14	476	3	66		

TABLE No. 90.—CURED CASES OF SKIN DISEASES

	Scal	ies	Fa	vus
	M.	F.	M.	F.
Cairo Hospital	158	322	254	140
Alexandria Hospital	402	569	152	146
TOTAL	560	891	406	286

					Ne	W CASES				
LOCALITY OF CLINIC	Syph	ilis	Gonor	rhoea	Skin	Dis.	Other	Dis.	Ton	TAL
	М.	F.	M.	F.	M.	F.	м.	F	М.	
Shubra Boulaq	102 109	79 87	209 204	32 148	2,870 3,099	12,111	58 5	143	3,239 3,417	1
Sayeda Zeinab Gamalia	81 142 18	67 83 25	215 544 37	145 190 .59	3,459 997 2,229	4,618 2,234 7,982	93 22	145	3,848 1,705 2.284	
Abbassia Heliopolis	88 40 11	60 23 18	120 69 32	50 11 52	2,297 1,436 1,408	4,624 $3,649$ $2,792$	19 - 4	14 — 56	2,534 1,545 1,455	
No.1 Alexandria Municipality	35 170 131	73 188 265	60 150 165	4 69 83	1,332 924 2,333	3,680 548 2,511	1 25 14	1 13 4	1,428 1,269 2,643	
", 3 " " " Port-Said " Port Said Health Centre	77 36 51	99 71 94	58 39 15	35 7 35	1,023 1,630 1,858	1,353 2,281 2,769	14 — — ————————————————————————————————	306	1,172 1,705 2,063	
Ismailia Suez	59 74 170	133 77 277	29 115 17	76	1,176 3,715 3,308	2,117 4,928 6,386	76	14 514	1,264 3,980 5,495	
Benha Shebin el Kom	53 52 14	53 45 20	94 25 2	100	2,332 4,390 1,806	2,441 7,753 4,752	_ 6 	7	2,485 4,467 1,822	-
Tanta	33 67 92	70 111 180	28 14 27	2 12 14	3,276 2,969 2,129	3,920	_ 1 	-	3,338 3,050 2.248	
Mansoura	131 106 68	204 232 78	26 2 64	5 5 102	2,829 2.729 3,209	3,574 3,085 8,799	20 —	521	3,006 2,837 3,341	
Kafr el Dawar Zagazig Facous	26 56 54	41 93 81	23 47 6	18 18 7	1,482 3,492 1,139	2,431 3,636 1,505	5	6 1	1,531 3,601 1.199	
Fayoum Sennouris Beni Suef	188 28 48	312 48 70	56 21 45	8 26 4	2.182 1,018 3,063	2,777 1,863 3,128	18 2	- 4 -	2,425 1,085 3,158	
Minia Samalout Assiut	86 27 182	109 59 363	71 3 33	2 1	1,766 1,868 1,685	2,183 1,309 3,506	6 3	150 2	1,523 961 1,900	
Deirout	52 121 171	75 146 252	28 1	_ 8	3,175 5.053 1.024	4,537 9,765 3,149			3,227 5.262 1,196	
Suhag	176 29 62	221 25 152	9 8 26	5 2	1.337 2.119 837	1,362 2,897 1.010		3	1.492 2.156 925	
Luxor	72 6	77 86	42 56	2 16	587 687	1.264 222	18	5	701 842	
TOTAL	3,409	4,878	2,785	1,370	90,945	152,699	59 8	1,920	97,737	16

VENEREAL DISEASES CLINICS DURING THE YEAR 1951

N	HMR	ER	OF	VISITS

Syphilis		Gonorrho	lea.	Skin D	is.	Other	Dis.	Тот.	L
	F	м.	F.	M.	F	М.	F.	M.	F.
	4,165	250	219	889	2,047	378	610	5,032	7,04
,629 1	2,078	3,031	1,709	3,193	3,178	175	73	18,028	17,04
	6,753	26	356	1,269	5,544	32		4,941	12,6
,117 437	6,312	736	568	578	891	48	315	7,479	8,08
,815	2,199	20 90	20	583	3,026	_		1,040	3,7
648	452	31	35 19	673	1,935	_		2,578	4,10
662	1,132	138	269	1,150 247	2,046 1,88			1,829	2,5
	3,714	60	4	454	1,295	8	11	1,055	2,9
1107 -	_						_ 4	1,991 29,893	5,0
1111	·	_ •				_		21,085	52,58 37,9
-		_		_	_			16,156	25,0
,152	2,586	58	13	667	945			1,877	3,54
,114	2,983	24	62	841	1,286	195	300	2,177	4,6
597	1,464	65	15	549	1,198			1,211	2,6
,639 ,018	4,204	426	429	1,257	1,363	118	417	3,440	6,7
527	6,585	$\begin{array}{c c} 30 \\ 155 \end{array}$	- 118	807	1,735			3,855	8,3
586	2,041	86	115 42	1,486	2,777	-	_	2,168	3,8
991	1,653	6	4.4	2,223 1,068	2,531 2,201			4,895	4,6
180	2,591	59	4	1,338	1,854			2,065	3,8
318	4,100	12	9	957	2,165	4		2,579	4,4
	5,765	30	23	1,253	1,152			2,287 4,462	6,2 $6,9$
113	5,243	41	15,	665	782			3,819	6,0
385	6,148	8	15	463	480		_	2,856	6,6
681	2,241	216	169	1,978	4,046			3,875	6,4
616	1,438	39	10	911	1,016			1,566	2,4
780	1,922	72	27	1,456	1,022	9		2,317	2,9
136	2,648	14	14	935	1,434			2,085	4,0
833 1	1,126		_	535	707			5,368	11,8
	2,265	37	64	614	1,191	35	17	1,802	3,5
	4,966	89	9	965	1,072		_	3,288	6,0
	6,352 5,532	$214 \over 2$	2	1,219	1,655 543	-00	102	5,706	8,0
_	6,441	$\begin{bmatrix} 2\\2 \end{bmatrix}$	4	1,178	2,294	28	103	2,477	6,1
187	5,536		ghosp sollingly	2,010	2,930		4	4,197	18,7
	6,529	53	10	1,463	1,289	-	1	5,503	7,8
250	5,127	1		63	119			2,314	5,2
884	9,990	8		498	390	_	_	7,390	10,3
131	3,468	20	17	454	1,007		3	1,605	4,4
441	8,903	48	1	229	258	_	-	2,718	9,1
427	5,25	151	11	4.66	71.)	_		3,044	5,9
552	5,128	126	46	353	6 2			2,031	5,8
595 18	38,668	6,474	4,32	38,430	64,369	1,029	2,154	213,762	375,15

TABLE No. 92.—cases of Syphilis in Venereal Diseases Clinics during 1951

Shubra	,		1	Acute	SYPHI	rlis					OTHER	STAGE	23				
Shubra	Locality of Clinic	Prin	ary	Sec	oond.	To	ral	Te	rt.	L	atent	Ner	vous	He	erd.	ר	OTAL.
Boulag		M.	F.	M.	F.	М.	F.	M.	F.	M.	F.	M.	F.	М.	F.	M.	F.
	Boulaq Sayeda Zeinab Gamalia Khalifa Abbassia Heliopolis Old Cairo Gîza No. 1.Alex. Municipality , 2 ,, 3 ,, 2 Port-Said Port Said Health Centre Ismailia Suez Damietta Benha Shebin el Kom Menouf Tanta Mehalla el Kobra Kafr el Zayat Mansoura Mit Ghamr Damanhour Kafr el Dawar Zagazig Faccous Fayoum Sennouris Beni Suef Minia Samalout Assiut Deirout Gerga Tahta Suhag Qena Nag' Hammadi Luxor Aswan	15 23 46 3 28 10 1 9 11 4 10 2 -7 6 7 1 -4 5 1 2 -1 10 -8 -1 10 -8 -1 10 -1 2 -1 10 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	2 8 3 18 2 -1 1 	31 10 33 4 18 7 2 6 26 25 14 9 12 11 11 7 3 9 1 4 8 8 13 17 5 8 8 13 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	14 12 21 3 15 8 6 9 18 20 17 11 9 9 1 6 2 6 3 1 1 0 5 5 5 4 9 1 8 6 6 1 2 6 6 1 6 6 1 7 4 8 8 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	46 33 77 46 13 13 14 13 14 13 14 13 14 13 14 13 14 13 14 14 13 14 14 13 14 14 14 14 14 14 14 14 14 14 14 14 14	16 14 29 6 33 10 6 10 19 20 17 11 9 9 2 14 6 7 3 1 12 5 6 3 5 7 4 4 19 19 19 19 19 19 19 19 19 19 19 19 19	4 6 2 4 4 3 2 5 3 10 11 5 - 7 9 7 4 5 2 13 2 11 7 3 2 5 3 8 7 3 17 4 5 - 1	-12 2 3 10 25 15 15 4 -5 6 2 2 4 3 8 1 8 1 8 1 1 1 6 4 3 1 2 5 3 3 7 1 4 1 2 1 1 2 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 3 6 6 6 6 4 1 1 1 1 1 1 1 1 1 1 1 1 1	2 64 29 47 2 14 3 25 8 11 42 135 211 6 43 7 6 1 63 1 63 1 63 1 63 1 63 1 63 1 63 1	7 3 -2 -1 -3 6 2 1 2 -6 13		-8 1 3 5 3 -4 11 19 10 19 18 32 7 11 7 29 10 19 18 6 10 19 18 6 10 19 18 6 10 19 18 6 10 19 18 6 10 19 18 32 5 7 44 15 9 26	- 12	10 8 14 1 8 14 13 17 13 13 17 13 13 13 13 14 14 18 18 18 18 18 18 18 18 18 18	9 85 1 65 2 85 8 8 60 1 18 8 8 60 1 18 1

TABLE No. 93.—New Cases of Gonorrhoea in Venereal Diseases
Clinics during the year 1951

Locality of Clinio	Acat	e	Chron	nio	Ton	AL
Locality of Clinic	M.	F.	М.	F.	м.	F.
Shubra	197	32	12	Allenna	209	32
Boulaq	76	3	128	145	204	148
Sayeda Zeinab	212	13	3	132	215	145
Gamalia	505	188	39	2	544	190
Khalifa	29	8	8	51	37	59
Abbassia	129	50	1	_	130	50
Heliopolis	69	11			69	11
Old Cairo	25	49	7	3	32	52
Giza	50	4	10		60	4
No. 1 Alex. Municipality	91	23	59	46	150	69
,, 2 ,, ,,	107	26	58	57	165	83
$\frac{3}{2}$, $\frac{3}{2}$, $\frac{3}{2}$	42	16	16	19	58	35
Port-Said	37	6	2	1	39 15	7 35
Port-Said Health Centre	15	35		_	29	3 d
Ismailia	29	5		2		76
Suez	103	76	12	_	115	10
Damietta	11		6		94	100
Benha	94	100	_ ,		25	# # # # # # # # # # # # # # # # # # #
Shebin el Kom	24	14	1	- 1	2	<u> </u>
Menouf	2		15		28	
Tanta	13	2	19		14	12
Mehalla el Kobra	14	12	8	8	27	14
Kafr el Zayat	19	6		0	26	5
Mansoura	26	5			2	5
Mit Ghamr Damanhour	43	102	21	т.	64	102
Vofa al Damar	17	102	6	4	23	18
	47	18			. 47	18
Zagazig Faccous	6	7			6	17
Transam	48	5	8	3	56	8
Commounia	19	26	2		21	26
Dani Guaf	33	4	12	45	45	4
Minia	71				71	-
Samalout	3	2	_	_	3	. 2
Against	33	1	_		33	Ä
Doiront		^]	_		-	-
Gerga	26	8	2	*********	28	8
Tahta	1		_		1	
Souhag	9	_		-	9	—
Qena	5	3	3	2	8	5
Naga Hammadi	25	2	1	_	26	2
Luxor	34	2	8	_	42	2
Aswan	46	10	10	6	56	16
TOTAL	2,387	892	458	482	2,845	1,374
TOTAL	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					

TABLE No. 94. -CURED CASES IN VENEREAL DISEASES CLINICS
DUBING THE YEAR 1951

		Cured C	Cases				
Locality of Clinic	Syphi	lis	Gonorrh	1068			
-	м.	F.	м.	F.			
houbra	10	10	224	75			
Boulag	222	211	182	117			
ayeda Zeinab	12	18	204	100			
lamalia	23	10	484	176			
halifa			29	8			
bbassia	1	1	120	50			
Ieliopolis		1	66	15			
ld Cairo	3	_	14	30			
iza	26	29	59	3			
o. 1 Alex. Municipality	_		37	14			
,, 2 ,, ,,	2	2	47	21			
,, 3 ,,	_	- "	15	8			
ort-Said	5	10	13	4			
ort Said Health Centre	2	6	8	29			
smailia Clinic		_	29	7			
uez ,,	35	57	43	35			
Pamietta ,,	42	54	8				
enha ,,			86	93			
hebin el Kom ,,		_	7	6			
lenouf ,,			_				
anta ,,			12	2			
Iehalla el Kobra,,	16	18	10	11			
lafr el Zayat ,,	14	22	25	15			
lansoura ,,	19	61	25	5			
lit Ghamr ,,				<u> </u>			
amanhour ,,	6	1	39	44			
lafr el Dawar ,,	1	2	14	7			
agazig ,,	14	19	29	12			
accous ,,	1 2	19	6	, 7			
ayoum ,,			54	8			
ennouris ,,	1	6	19	26 1			
eni Suef ,,	7	1	31	1			
linia ,,	15	27	71	_			
amalout ,,		-	3	$\frac{2}{1}$			
ssiut ,,			33	ì			
eirout ,,	_	_	-				
erga ,,	24	72	28	8			
ahta ,,	25	40.	1	-			
ouhag ,,	1	10	7	-			
ena ,,	13	25	8	2			
ag Hammadi ,,	_	-	4				
uxor ,,		_	-	_			
swan ,,	2	17	48	6			
TOTAL	553	749	2,142	948			

Table No. 95.—Cases of Favus Treated by X Rays during 1951

Units	Ca	ases
-	M.	F.
Shubra Clinic	199	184
Sayeda Zeinab Clinic	413	408
Cairo Hospital	254	140
Khalifa Clinic	210	248
Abbassia Clinic	301	268
Heliopolis Clinic	339	265
Port-Said Health Centre	33	62
Ismailia Clinic	27	26
Suez Clinic	118	714
Damietta Clinic	111	37
Alexandria Hospital	152	146
Mansoura Clinic	124	78
Shebin el Kom Clinic	267	129
Zagazig Clinic	171	88
Benha Clinic	412	178
Gîza Clinic	288	186
Beni Suef Clinic	153	. 65
Minia Clinic	108	107
Assiut Clinio	94	40
Souhag Clinio	116	49
Qena Clinic	23	. 11
Aswan Clinic	33	10
Total	3,946	3,439

Table No. 96.—New Cases of Scables DURING THE YEAR 1951

Locality of Clinic	New Scabies	
	M.	F.
	•	
Shubra	237	645
Boulaq	644	758
Sayeda Zeinab	102	146
Gamalia	182	245
Khalifa	191	192
Abbassia	207	33 8
Heliopolis	102	186
Old Cairo	157	190
Giza	42	92
No. 1 Alexandrîa Municipality	87	48
,, 2 ,, ,,	826	968
,, 3 ,,	166	164
Port-Said	93	80
Port Said Health Centre	93	137
Ismailia	68	40
Suez	111	87
Damietta	224	312
Benha	390	388
Shebin el Kom	1,842	1,859
Menouf	55	149
Tanta	61	34
Mehalla el Kobra	213	237
Kafr el Zayat	99	117
Mansoura	140	191
Mit Ghamr	233	238
Damanhour	276	268
Kafr el Dawar	84	98
Zagazig	371	346
Faccous	197	209
Fayoum	291	· 282
Sennouris	107	170
Beni Suef	241	166
Minia	123	164
Samalout	112	155
Assiut	365	698
Deirout	190	236
Gerga	198	351
Tahta	140	189
Souhag	81	52
Qena	, 111	136
Nag Hammadi	110	107
Luxor	107	215
Aswan	78	119
TOTAL	9,947	11,802

Tablu No. 97.—New Cases and Number of Visits to the Mobile Unit at Ibrahimia

During 1951

New	Casee	Number	of Visits
M.	F.	М.	F.
393	456	142	186

TABLE No. 98.—FULL DETAILS

		Scab	Oth Cir. Dr.			
Unit	New	Cases	Cured	Cases	Other Skin Dis.	
	М.	F.	М.	F.	M.	F.
Ibrahimia	39	32	24	20	454	424

Table No. 99.—New Cases and Visits to Scabies
Treatment Bath during the year 1951

New	Cases	Number	of Visits
М.	F.	М.	F.
1,860	1,404	3,264	6,012

Table No. 100.—Hospitals and Clinics from which Cases of Scabies were Forwarded during 1951.

District	Patients			
		M.	F.	
Shubra Clinic	• • •	969	953	
Sayeda Zeinab Clinic		26	16	
Gamalia "	@ @ v	103	87	
Abbassia ,,	• • •	61	63	
Giza ,,		49	30	
Boulaq Health Centre	• • •	171	234	
Malek Hospital	•••	12	11	
Demerdash "	•••	2	_	
School Hygiene Dept.	•••	15	, 4	
Auxiliary Police Barrac	ks	197	_	
Other Units	•••	255	6	
TOTAL	• • •	1,860	1,404	

Chapter XIV_Mental Health

Number of Patients:

The number of patients remaining on 1st January 1951 in both mental hospitals was 5,835. Adminssions during the year numbered 4,048 or a total of 9,883 patients received treatment during the year. 6,144 patients remained in both hospitals on 31st December 1951.

Accused Persons Suspected of Insanity:

195 accused persons were referred to the hospitals by the Procurer General for examination and report. The parquet asked for reports in respect of 58 other patients who were admitted to the hospitals in the ordinary way. This brings the total number of reports forwarded to the parquet to 253.

Physical Condition of Admissions:

The	ratio i	n bot	th 1	ospit	tals v	vas :	as fo	llows			Abbassia	Khanka %	
	Fair		•••	• • •	•••	•••	•••	•••	•••	•••	63.6	52.3	
	Poor	•••	•••	***	•••	•••	• • •	• • •	•••	•••	31.1	29.2	
	Very	poor	or	mor	ibun	£	•••	• • •		•••	5.3	18.5	

Wassermann Tests:

3,782 blood specimens for Wassermann reaction and 33 specimens of cerebrospinal fluid were sent to the Laboratories Department for examination and gave various results.

Deaths:

Deaths recorded during the year were 215 in Abbassia and 181 in Khanka or a death rate of 4.1% and 3.9% respectively of the patients treated in both hospitals.

Electric Shock and Cardiazol Treatments:

Treatment by both methods continued on a larger scale. Cases of schizophrenia, manic depressive, confusional psychosis and anxiety neurosis were treated giving results varying between recovery, marked or slight improvement and no improvement.

Accidents:

41 major and 2,806 minor accidents took place in both hospitals.

Artificial Feeding:

This was carried out 15,498 times in Abbassia hospital and 2,267 times in Khanka without accidents.

Physical Illness:

11,443 cases were treated locally from physical illness.

Birthe 1

8 children were born in the female wards at Abbassia hospital.

Autoposies:

65 post-mortom examinations were done during the year.

Pharmacy 1

42,740 prescriptions and 2,000 photos were prepared in the pharmacy of Abbassia hospital, and an almost equal number in Khanka.

X-Rays Department:

126 photos and 318 screenings were made in Abbassia hospital.

Central Medical Commission:

72 patients in Abbassia hospital and 30 in Khanka were reported upon to the central medical commission.

Board of Control:

3,970 reports on new patients and 1,855 on old patients were submitted to the Board of Control by the two hospitals regarding their admission, detention and discharge.

The Out-Patient Clinics:

The two out-patient clinics at the Malek and Boulaq general hospitals continue to carry out their useful functions. A total of 857 cases presented themselves during the year for examination. Of this number; 601 were mental cases some of which were accompanied by organic nervous diseases.

107 cases were psychoneurosis and 95 were ordinary medical cases.

The number of sittings of electric convulsion therapy totalled 871.

Social Service:

The social services section renders invaluable services to patients. Besides investigation in the social status of attendances at the out-patient clinics, the social workers are in charge of the clubs and library and look after the entertainment of inmates at Abbassia and Khanka hospitals. 18 meetings were held during the year for the entertainment of the patients.

Financial aid is extended to destitute patients and their families by the Social Insurance offices and benevolent societies scattered throughout the country.

Chapter XV-Health Education and Social Services

The state of public health throughout the country is such that great efforts are required to awaken the population's interest in matters of health. A comprehensive programme for health education has therefore been prepared utilising all modern means of publicity and impoverising new methods consistent with educational standards of the various categories of the population.

Activities of Health Propaganda Units:

The Ministry counted upon its twenty propaganda units for the dissemination of health education among the urban and rural population. These dealt with the local health problems of each particular area. Among these problems may be cited endemic and infections diseases control, amelioration of public health and preservation of the health of the individual.

The following are details of the main activities of the units:

	Number
Day-time propaganda meetings	5,235
Evening propaganda meetings	4,187
Meetings held in public markets	976
,, ,, schools	2,432
" " " Army and Police Barracks	124
,, ,, for workmen	172
" ,, in social institutions	264
,, ,, ,, cinemas	994
", ", ", public thoroughfares and parks	438
,, ,, during fairs and religious events	36

Health Education:

This covered all the diseases and health problems on which the population needed enlightenment, e.g. infections diseases, endemic and Venereal diseases, nutrition, child welfare.

Propaganda drives were organised in connection with seasonal infectious diseases as well as health weeks in connection with other problems.

Broadcasting:

A programme for the health education of the population was broadcast regularly during the year. This included 49 lectures and talks, 12 representations, 18 news bulletins and 130 questions answered.

Cooperation with other organizations:

In conjunction with the School Hygiene Depatrment of the Ministry of Education, films were shown and lectures delivered in schools of all types.

The Ministry participated in the World Health Day by holding meetings demonstrating the value of cooperation in raising the standard of public health. These meetings were also broadcast.

Publications:

In addition to the ordinary publications, 8 coloured posters were published illustrating: Immunity — The workman — nutrition — narcotics — Phlegm — eyes — tuberculosis — insects. Fifty thousand copies of each poster were produced and distributed to public health inspectorates in the provinces, health propaganda units and other organizations, schools, etc.

Preaching:

In view of the influence of religion upon the population, arrangements were made with the Mosques Section of the Ministry of Wakfs and the Preaching Section of Azhar for sermons to be delivered in public congregations and in mosques touching on the more prevalent diseases.

The Cairo Museum of Hygiene:

Since this museum was taken over by the Ministry in 1950, every effort was made to render it a health education centre where the population can get information on all the health problems.

Entertainment of in-patients.

During the year under review, 36 meetings were held in the various hospitals for the entertainment of in-patients.

Activities of Assiut Social Health Services Office:

This office has undertaken valuable social health services, namely:

I.—Services rendered to patients and their families:

Examined the social condition of 231 patients referred to it by different authorities and gave the necessary aid, e.g.

- (a) Arranged for the employment of 4 ex-patients in suitable occupations.
- (b) Arranged for meals to be distributed to 15 families of patients who were found suffering from mal-nutrition.
- (c) Arranged for artificial limbs to be provided to 9-patients against the Hospital Day Fund.

Besides, 96 cases required specific treatments which the office facilitated in the various units.

112 pregnants suffering from syphilis, malnutrition or frequent abortion were referred to the office by child welfare centres. The husbands of these cases were persuaded to undergo treatment, meanwhile financial aid and meals were provided.

Another 46 chest diseases patients forwarded by chest dispensaries received aid from the office.

The mental hospitals asked the office to follow up 3 mental cases discharged as cured

II.—Ante matrimonial Examination:

This office undertakes the medical examination of betrothed persons of both sexes to ensure their freedom from hereditary afflictions. Healthy persons are provided with certificates of eligibility. Others are persuaded to postpone their marriage and advised to undergo treatment.

During the year, 399 persons (218 males and 81 females) presented themselves for examination. 86 males and 12 females were found eligible. The rest were given the necessary advice.

III.—House visits:

The health visitors paid 450 house visits to instruct mothers in child care, house sanitation, care of the sick and methods of protection against infectious diseases.

IV.—Social and Health Research:

The office compiled data and undertook researches on diseases of malnutrition, chest diseases, ophthalmias, parasitic and infectious diseases with a view to submitting an appreciation of the state of health within the region to the higher authorities, suggesting the solution to the various problems and directing health propaganda accordingly.

V.—Cooperation with other government and private social organizations:

The office continued its cooperation with several government and private organizations with social activities.

VI.—Health Education:

The office pays special attention to health education of the various categories of the population in collaboration with other educational institutions.

PART III-MEDICAL TREATMENT

Chapter XVI-General Hospitals

Number of Hospitals:

There were 90 hospitals in operation at the end of the year 1951. Of these, 22 general hospitals were located in governorates and chief towns of provinces and 68 district hospitals in district and large towns.

Höspital Accommodation:

The total number of hospital beds at the end of this year was 8,611. This number includes 695 beds of ophthalmic branches and 661 beds for ancylostoma branches within these hospitals as well as 1,413 beds for medical personnel of these hospitals.

These are distributed as follows:-

1st. Class .	2nd. Class	3rd. Class Paying	3rd. Class Gratis	Total	Ophth. beds	Ancyl.beds	TOTAL	Total beds for Patients	Beds for Personnel	Total Bed
31	67	16	5,728	5,842	695	661	1,356	7,198		

In-Patients:

A total of 117,610 in-patients were treated this year, exclusive of ophthalmic and ancylostoma in-patients. 4,515 deaths were recorded among the in-patients or a death-rate of 3.84%.

X-Ray Examination and Treatment:

The following table gives the number of patients examined and treated with X-Rays and electricity in general hospitals during the year:

X Ray Ex	ramination	X Ray T		Treatment	Treatment
Deep	Super- ficial	Deep	Super- ficial	with light	with Electricity
3,400	4,907	292	589	465	5,137

Out-Patients:

A total of 4,101,577 out-patients (2,634,792 new and 1,466,785 old) were treated this year exclusive of ophthalmic and ancylostoma out-patients.

Dental Clinics:

21 general hospitals and 21 district hospitals are now provided with dental clinics. These have treated 148,850 patients (115,348 new and 33,502 old).

Operation's:

A total of 38,521 major operations — including abdominal and urinary system operations — were performed during the year. Of these operations, 32,622 recovered, 3,618 improved, 972 died and 1,309 were remaining at the end of the year. The death rate was 2.5%.

Abdominal and urinary system operations numbered 7,198. Of these, 6,057 recovered, 479 improved, 445 died and 217 were remaining at the end of the year. The death-rate was 6.18%.

The following table No. 101 gives details of the number of hospitals in operation and number of in and out-patients during the past five years.

TABLE No. 101.

Yoa	r	•	Gen. Hospitals	Dist. Hospitals	Out.pt. Clinics	Number of beds	In patients	Out-patiants
1947	• • •	• • •	28	56	. 4	6,879	62,699	1.952,519
1948	•••	• • •	28	56	5	7,171	69,092	2,165,107
1949	:••	• • •	29	56	5	6,878 (3)	104,732	2,886,893
1950	•••	•••	22	67	4	8,573 (4)	114,430	2,556,715
1951	•••	•••	22 (1)	68	(2)	8,611 (4)	117,610	2,634,792

- (1) The reduction is attributed to the new application of the name. General hospitals now apply to those located in governorates and chief towns of Provinces. Before 1949, the name applied to hospitals located in certain large districts as well.
 - (2) These clinics have been annexed to the Rural Health Department.

· ·

- (3) The reduction is the result of the requisition by the Ministry of War and Marine of Hilmiet Zeitoun hospital.
- (4) This number includes beds of the ophthalmic and ancylostoma branches within these hospitals.

Chapter XVII-Ophthalmic Hospitals

New Units:

- (a) Hospitals: Nil.
- (b) Branches: Sinnouris. The Sinnouris hospital accommodated in tents was transferred to Tamia.

This brings the total number of units to 107, ie

- 95 Permanent (Buildings and Tents).
- 12 Travelling.
- 107 TOTAL

Clinical Work.

The following table No. 102 shows the clinical work done during 1951 compared with that done during 1950:

Table No. 102

	1950	1951
New patients	1,445,921	1,362,801
Out patients	5,698,972	4,696,634
Number of out-patient visits	7,208,525	6,112,565
Operations	210,773	183,114
Ophthalmias	313,064	325,320

Blindness:

The number of cases of blindness in one or both eyes, excluding cataract cases causing blindness, was 36,890 or 2.6% of the total patients examined at the ophthalmic hospitals. By adding the cataract cases causing blindness, this ratio becomes 2.7%.

Other Services:

- 1. Ophthalmologists pay regular visits to the following institutions and hospitals to examine and treat ophthalmic cases:
 - (a) Leprosy Hospital and colony at Sioufia and Abu-Zaabal.
 - (b) Mental Diseases Hospitals at Abbassia and Khanka.
 - (c) Fever Hospitals at Abbassia and Imbaba.
 - (d) Convalescents settlement at Marg.
 - (e) Children's preventoria at Giza and Marg.
 - (f) Mataria Dispensary.
 - (g) Chronic Diseases Hospital at Helwan.
- 2. The Ophthalmologists of the Ministry participate in the examination of motorcar drivers at traffic offices in Abbassia and the provinces. They are also members of the Central and Provincial medical commissions.
- 3. During pilgrimage, a medical mission including two ophthalmologists is sent to the Hedjaz for the examination and treatment of pilgrims at Mecca and Medina.
- 4. Ophthalmologists of other administrations are trained at ophthalmic hospitals in the performance of the different ophthalmic operations. Ophthalmic units of other ministries are also provided with surgeons who have been trained in ophthalmic hospitals.
- 5. Assistant midwives and health visitors of the rural health centres are also trained at the various ophthalmic hospitals in ophthalmic treatment technique so that they may be able to give aid to eye cases that attend the health centres and instruct the villagers in the care of the eye.

Post Graduate Course:

A post graduate course is provided in ophthalmic medicine and surgery at the Cairo University for fresh graduates who propose to join the ophthalmic Section.

Nursing Staff:

Male attendents in ophthalmic units are still being replaced by nurses as funds permit and until nursing in ophthalmic units is fully undertaken by female nurses.

Accommodation:

The number of beds in all ophthalmic units was 2445. Where space permits in in-patient sections, more beds are added.

Ophthalmic Library:

The circulating library continues to provide medical officers in ophthalmic units with old and new literature on ophthalmology.

Apparatus and Instruments:

The Ministry keeps ophthalmic units provided with modern instruments and appliances to enable them to keep pace with ophthalmic developments.

Chapter XVIII-Pharmacies

Private Pharmacies:

73 new private pharmacies were authorised by the Ministry during the year. Approval was given for the transfer of ownership of 20 pharmacies, some of which were owned by non qualified pharmacists.

Night Service Pharmacies:

The four night service pharmacies in Cairo and suburbs have dispensed 12,725 prescriptions during the year, exclusive of patented preparations which are dispensed without prescriptions.

Schedule V Drug Stores:

Five permits for trading in Schedule V substances (medicinal plants) were granted during the year: Two in Alexandria, two in Cairo and one in Giza.

Schedule XI Drug Stores — Simple Drug Stores:

13 permits for simple drug stores were granted this year: 5 in Gharbia, 2 in Sharkia and one in each of Abu Sueir, Menoufia, Beni Suef, Fouadia, Assiut and Giza.

Agents:

Five permits for agents with depots and one for an agent without a depot in Cairo; 4 permits for agents with depots in Alexandria and one permit for an agent without a depot in Port Said were granted this year.

Shedule I and II Poisonous Drug Stores:

17 permits were granted this year: 8 in Cairo, two in Alexandria, 2 in Giza and one in each of Gharbia, Menoufia, Minia, Qena and Canal.

Shedule IV Drug Stores:

25 permits were granted: 18 in Cairo, 4 in Alexandria, and one in each of Kaliubia, Giza and Canal.

Pharmaceutical Laboratories:

Two pharmaceutical laboratories were authorised during the year.

Registration of Egyptian Specialities:

98 Egyptian pharmaceutical specialities were registered and 16 refused registration during the year. The total number of registered local specialities is 1,844.

TABLE No. 103.— STUPEFACIENTS IMPORTED INTO EGYPT
AND EXPORTED THEREFROM DURING 1951

Drug	Quantity is	mportd	Quantity exported		
	Kg.	Gr.	Kg.	Gr.	
Opium and its preparations	33	180	numbers.	contracts	
Morphine and its salts	1	638			
Cocaine and its salts	0	250	-		

TABLE No. 104.—STUPEFAGIENTS CONFISCATED FOR ILLIGIT IMPORT OR EXPORT.

Dr.			Kg.	Gr.
Opiam			1,406	_
Cannabis Indica	900 000 01 1	· • • •	13,509	,

TABLE No. 105.— STUPEFACIENTS CONSUMED FOR MEDICAL PURPOSES.

Drug	Kg•	Gr	
• "А	11 10 0 00101	. ** * * A TA TE	
Opium and its preparations	34	790	
Morphine and its salts	2	. 015	
Cocaine and its salts	0	980	

Chapter XIX-Universities Hospitals

Manial Hospital:

Only three beds were added this year to the accommodation of the hospital bringing the total accommodation to 1,452 beds. A new section for psychiatrics has been set up consisting of 6 beds (the 3 new beds and three beds detached from the casualty department which now consists of 40 beds as against 43 in 1950).

In-patients:

During the year, 20,568 in-patients were admitted to the various departments. This is 1,550 in-patients fewer than last year. Of this decrease, 1,056 patients affected the medical diseases departments. The remaining 494 were shared by the other departments: Casualty, Radiology, Chest and Tropical diseases.

Discharges as cared, improved or at their own request totalled 15,659 as against 16,733 in 1950. 3,625 in-patients were referred to the out-patients department for completion of treatment and 45 in-patients were forwarded to other hospitals.

Deaths totalled 846 or a death-rate of 4.1%. This is the same death-rate as last year.

Of 657 casualty cases admitted during the year, 547 recovered, 102 died and 8 were still under treatment at the end of the year. The casualty cases were involved in car accidents, tram, train, vehicles, motor cycles, bicycles, quarrels, stabs, falls, gun fire, explosions and scalds.

Diagnosis of Medical Diseases In-patients:

Diagnosis of medical diseases treated within the in-patient departments fall under ten headings, namely:

- (1) Respiratory system diseases numbered 2,028 (1,537 males and 491 females). 135 deaths or 6.6% were recorded (112 males and 23 females).
- (2) Digestive system diseases numbered 1,922 (1,266 males and 656 females). Deaths numbered 103 (72 males and 31 females) or 6%.
- (3) Diseases of the cardio vascular system numbered 3,216 (2,080 males and 1,136 females). Deaths numbered 397 (263 males and 134 females) or 12.4%.
- (4) Diseases of the uro-genital organs were 682 (543 males and 139 females). 67 deaths were recorded (48 males and 19 females) or 9.8%.
- (5) Diseases of the central nervous system numbered 1,440 (1,015 males and 425 females). 88 deaths (60 males and 28 females) were recorded or 6.1%.
- (6) Diseases of the blood, lymphatics and the spleen totalled 825 (659 males and 166 females). 53 deaths (43 males and 10 females) were recorded or 6.4%.
- (7) Diseases of the metabolism and endocrine glands numbered 553 (357 males and 196 females). 19 deaths (16 males and 3 females) were recorded or 3.4%.
- (8) Diseases of the joints and bones numbered 380 (208 males and 172 females). Two deaths were recorded, a male and a female.
- (9) Infectious diseases and fevers numbered 149 (86 males and 63 females). Three deaths were recorded, 2 males and a female.
- (10) The miscellaneous diseases numbered 223 (133 males and 90 females.) 22 deaths were recorded, 15 males and 7 females.

Out-Patients Department :

A total of 621,287 out-patients (274,130 new and 347,157 old) were dealt with this year as against 916,945 out-patients in the previous year or 295,658 patients less than last year. It is observed that the decrease is general in all departments and may be attributed to the establishment of various dispensaries and private clinics in the neighbourhood of patients' residence.

Dental out patients totalled 66,209, this year.

Kasr el Aini Hospital:

The number of beds remained the same as last year, namely, 1,250 beds.

In-Patient Departments:

The number of in-patients treated in the various departments was 20,508 (18,426 adults and 2,082 children), as against 21,572 (20,262 adults and 1,310 children) in the previous year.

13,473 in-patients were discharged as cured, improved or at their own request. 5,903 in-patients were referred to the out-patient department for completion of treatment and 35 in-patients were forwarded to other hospitals. Deaths totalled 780 or a death-rate of 3.1%. 468 of the deaths were casualty cases who died as a result of their injuries.

Casualty Cases:

These numbered 4,858 as against 4,045 in 1950 or 813 more cases than last year. Of this number, 468 died as against 376 in 1950.

According to the number of victims, motor vehicles come first having accounted for 784 casualties (612 adults and 172 children), then come falls on the floor with 685 casualties, falls from height with 504, falls downstairs with 440, quarrels with 403, tram with 292, (234 adults and 58 children) and then scalds with 178 casualties.

DEMERDASH AND CHILDREN HOSPITALS, ABBASSIA:

Demerdash Hospital:

In August 1928, the Council of Ministers agreed to a proposal made by Late Abdel Rehim Mustafa El Demerdash to contribute in the construction of a hospital at Abbassia. The construction of the ground and 1st floors and the out-patients department was completed and the hospital opened in 1931. New constructions were added from time to time and the hospital was equipped with most modern apparatus to meet future increase of patients.

This hospital was annexed in 1947 to the Universities Hospitals Department and now serves educational and treatment purposes for Abbassia Faculty of Medicine. The hospital started with 100 beds. During this year, the accommodation reached 456 beds, distributed on the various departments. 12,469 in-patients and 123,070 out-patients were dealt with during the year.

Abbassia Children Hospital:

This was opened in September 1950 with 113 beds increased to 128 beds in 1951.

4,938 in-patients and 81,403 out-patients were treated in the hospital during the year.

Alexandria Hospital:

Three new beds were added this year bringing the total number of beds to 820.

In-Patients:

22,366 in-patients were admitted during this year as against 20,993 in 1950. Of this number, 21,493 were discharged as cured, improved or at their own request; deaths totalled 981 or a deathrate of 4.5% as against 19,974 discharges, and a death-rate of 4.6% in the previous year.

Diagnosis of in-patients showed that 615 patients suffered from respiratory system diseases, 387 from digestive system diseases, 991 from cardio-vascular system diseases, 98 from uro-genital system diseases, 410 from nervous system diseases, 101 from diseases of the blood, lymphatics and spleen, 165 from diseases of metabolism and endocrine glands, 112 from diseases of bones and joints, 26 from infectious diseases and fevers and 464 from miscellaneous diseases.

Diagnosis of surgical cases shows that there were 841 cases of pyogenic infections and infective wounds, 365 cases of burns and scalds, 676 cases of wounds, 1,461 cases of fractures, 520 cases of affections of the brain and meninges, 1,608 cases of affections of the intestines, 513 cases of affections of the rectum and anus and 715 cases of non-localised lesions of the urinary system.

Out-Patients:

These numbered 662,025 (238,337 new and 423,688 old) as against 742,542 (220,662 new and 521,880 old) in 1950.

188,502 out-patients were dealt with by the surgical department, 159,834 by the ophthalmic department and 134,530 by the medical diseases department.

There is also a tropical diseases service which dealt with 29,529 out-patients (18,721 new and 10,808 old).

Chapter XX-Bilharzia and Ancylostoma Treatment

Treatment Activities during the year 1951

TABLE NO. 106.—TREATMENT ACTIVITIES UNDERTAKEN BY THE UNITS OF THIS SECTION DURING THE YEAR 1951, AS COMPARED WITH THOSE OF 1950

		No. of	Positiv Bilharz	e ia	Positiv Ancylost		Positiv Ascari		No. of. Bilharzia	No. of.
Details	Year	new patients	No.	Rate per Cent	No.	Rate per Cent	No.	Rate per Cent	injections given	mintic doses given
							,	4		
Treatment done (1951	1,113,288	583,020	52	143,135	13	399,127	36	4,363,905	459,358
headquarters	1950	1,133,567	585,821	51	162,338	14	401,366	35	4,306,583	456,592
Treatment of re-	1951	6,287	3,796	60	911	14	3,257	52	20,267	2,817
mote villages through branch units	1950	5,699	3,864		522		3,647		30,380	
umo v										
Treatment by	1951	44,364	19,977	45	4,440	10	22,443	55	144,410	22,739
Mobile Units.	1950	50,334	37,830	75	5,565	11	24,950	49.5	140,092	17,181
m () ()	36-5	ri aah	5.4 4 N Y	-00	- FOO	42	TË ÒTO	กัร	THE ORG	200 00
Treatment by cooperative cen-	1951 1950	56,669 65,378	18,161 24,350	32 37	7,702 6,225		17,978 17,107		155,873 174,120	
tres (1590	00,010	24,000	01	0,220	J. U	11,101	20	114,120	10,112
Treatment of (1951	34,716	10,714	30	1,162	3	2,931	8	59,177	3,310
school pupils.	1950	30,378	9,897	33	617	2	3,212	11	53,756	3;244
						0.6	* **	20	20.442	7.007
Treatment of Home Guard.	1951	3,796	2,097	55	953		1,136 1,498		20,448	1,861 2,423
(1950	9,410	2,525	51	1,307	41	1,430	O.L	20,001	2, 120
m: -1:::	1951	4,030	1,304	32	160	4	824	20	7,767	856
Treatment of) workmen	1950	22,498	8,511	33	2,509	11	7,810	35	64,993	9,375

Free meals issued to patients during treatment.

273,140 midday meals were served to anaemia and pellagra out-patients during treatment, as against 325,922 last year. The decrease in the number of patients receiving these meals was due to: (a) Abolition of these meals in ten units, not being needed; and (b) suspension of the meal during winter months in all the units as a measure of economy.

Certificates of freedom from parasites.

178,933 certificates were issued to school pupils and workmen, as against 186,070, last year. In addition, a greater number of certificates was issued by the School Hygiene Department, Ministry of Education who is principally concerned.

In-patients.

·	Year		Treatment	Cured	Improved	Comments
1951	•••	•••	20,203	19,333	870	
1950	•••	•••	21,265	20,312	953	-

NEW UNITS AND AREAS SERVED.

New Units:

(i) Out-Patient Units.

No new units were provided this year. The total number of out-patient units remained the same as last year, namely 101, comprising 7 stationary units, 44 travelling, 33 ancylostoma branches and 17 school dispensaries.

(ii) In-patient units.

Provision was made for a 20-bed in-patient department at the Ancylostoma Branch within Hehya District Hospital.

Provision was also made for a simplified eudemic diseases treatment branch within Kafr Saqr District Hospital, with a 20 bed in-patient department and an out-patient dispensary.

The Number of in-patient accommodation remained the same as last year i.e. 2,020 beds.

Transfer of units:

Hereunder is a statement of the units transferred during the year:

Ünit		Transferred	Doctor	
Omt	From	То	Date	Comments
No. 5 Ancylostoma Dispensary	Kous	Shubra El-Kheima (Kaliubia)	July 16, 1951	Only O.P. Disp. staff transferred.
No. 13 Mobile unit	Kaliub	" "	Aug. 2, 1951	
No. 15 ,, ,,	Qaha	Toukh	Feb. 24, 1951	For storage because of
No. 16 ,, ,,	Kaliub	Cairo (Fom el Khalig)	Aug. 2, 1951	shortage of doctors.

IMPROVEMENT IN THE WORKING SYSTEM.

Extension of Unit Activities.

(i) Collective treatment of industrial workmen.

Following last year's collective treatment activities undertaken in villages and factories of Kaliub District, the units were urged to extend their treatment activities to the organized assemblies of people within their areas, namely:

TABLE No. 107.

	No.		Positive		Bilharzia	No. of
	Examined	Bilharzia	Ancylostoma	Ascaris	injections adminstered	anthelmintic doses given
						9
Com Ombo Inspection	834	377	80	4	3,435	94
fational Oil Company at Zagazig	520	270	68	278	1,931	214
Vorkmen of Electrical power Stn., El Atf	96	26	-		_	
avoudakis Factories at Alexandria	308	88	de la constante de la constant	100	141	54
nity Factory, Hadra	1,721	178	6	403	1,635	409
Sollum & Metaxas Factory at Mataria (Cairo Suburb)	551	165	6	39	625	85
Тотац	4,030	1,104	160	824	7,767	856

(ii) Yearly examination and treatment of pupils of elementary and compulsory schools.

In view of the high incidence of bilharzia and other intestinal parasites among pupils of elementary and compulsory schools in villages, the Section arranged with the Ministry of Education for pupils of these schools to report to units in the vicinity for examination and treatment following their admission. Certificates of freedom from parasites should be kept in their files.

(iii) Cooperation with charitable institutions, factories, companies and other organizations.

Cooperation was maintained with private medical services which were provided with centres for the examination and treatment of endemic diseases.

THE FOLLOWING.—TABLE NO. 108 GIVES DETAILS OF THE MEDICAL SERVICES AND THEIR ACTIVITIES.

		4			*		
Medical Unit	Organizațion	No.	1	Positive for	,	Bilharzia injections	No. of Anthelmi.
	to which it belongs	examined	Bilharzia	Ancylos- toma	Ascaris	given	ntic doses given
	/						
Red Crescent Dispensary,							
	Red Crescent	9,573	1,577	777	129	14,543	921
Cairo University	Univ. Med. Sect	5.524	355	 ,		1,946	_
Gabbari Dispensary	Al Moassat Sect.	[3,755]	394	, 53	1,280	2,287	644
	Gen. Hosp. Sect.	5,563	[3,573]	719	2,593	18,586	1,663
Dessouk Hospital	, ,, ,,	7,772	2,318	562	734	15,922	1,093
Mersa Matrouh Hospital	Frontier Districts						
	Med. Section	994	136	32	236	669	247
Zifta Hospital	Gen. Hosp. Sect.	4,671	2,559		3,272	20,249	3,464
Idfina Hospital	,, ,,	2,931	2,119		2,599	12,588	1,241
Behout Hospital	,, ,,	3,356	1,677	504	538	7,679	576
Arish Hospital	Front. District				10.00	,	
7	Med. Section	6,195	60	194	4,969	551	4,840
Enciba Hospital	Gen. Hospitals						
	Section	1,288	355		3 415	2,197	$\begin{array}{c} 3 \\ 749 \end{array}$
Shoubra Kheima Hospital		3,323	1,353	370	415	7;821	
Fayed Malaria Station 4	Research Inst.	1,724	1,092	333	190	7,855	306
				1		Carlotte and	

Cooperation with the Central Medical Commission and the Medical Commissions in Provinces and Governorates.

It was proposed that candidates for government service should be examined for bilharzia by medical commissions; a bilharzia infection being considered as a cause for rejection. Two laboratory assistants have been appointed to the Central Medical Commission for the purpose and public health inspectorates in the provinces were requested to delegate one of the laboratory assistants in the bilharzia treatment units to attend meetings of the provincial medical commissions.

EXPEREMENTS:

(i) Bilharzia mass examination in the Siouf Area, Behera Province.

The Ministry participated in the experiments conducted in Siouf area, Behera Province, for snail eradication around villages. It was decided to carry out a complete examination for urinary and intestinal schistosomiasis of the whole population of certain villages twice: once before treatment of snail infested water courses and a second time after the lapse of one year.

Work was started on 7/11/1951 and was still in progress at the end of the year.

(ii) Drug Tests:

Experiments for abridging bilharzia treatment, by means of intravenous and intramuscular drugs were continued, namely:

- (a) Daily administration of tartar emetic injections to out patients for ten-days.
- (b) Two day treatment with Repodral for in-patients.
- (c) Four day treatment with Repodral for out-patients.
- (d) Two day treatment with tartar emetic for out-patients.

The preliminary results were not encouraging, since such treatments required care and caution. It was decided to continue investigations.

Chapter XXI-Malaria

1.—All molaria units, the Cairo Anti-mosquito service, the Fayoum Campaign, the Sanitary Air-Squadron and the Sanitary Engineering Service have cooperated this year in the general control work. Malaria units in operation numbered 25 main and 50 branch stations in Lower Egypt and 14 main and 24 branch stations in Upper Egypt. Each of these units conducted a general microscopical survey of the inhabitants of its area on the same lines as last year.

These units observe the application of the malaria law No. 1 of 1926 modified by law No. 78 of 1946. Clay balls soaked in malariol and 5% D.D.T. were used in the control of rice cultivations lying within a kilometre from the villages in the area served. Ministerial arrêtés forbidding aquatic cultivations around large towns were applied. Public Health units were spray painted with 5% D.D.T. in kerosene for the control of mosquitoes and flies.

General control measures thus covered an area of 954,175 feddans (acres), including Cairo City and suburbs and Fayoum Province, with a population of 5,488,736 inhabitants.

2.—Blood Films and Results:

(a) Patients attending Malaria units:

Of a total of 48,607 blood films microscopically examined by malaria units and malaria laboratory assistants in ancylostoma units during the year, 6,389 or 13.1% were returned positive. Of these, 1,085 were new infections and 5,304 relapses, as compared with 9,084 films and 1,231 positive cases in the previous year.

(b) General Survey:

Of a total of 238,673 blood films taken for general survey, 2,174 or 0.9% were returned positive. Of these, 870 were new infections and 1,304 relapses as compared with 126,316 blood films and 2,649 positive cases in the previous year.

3.—Malaria Incidence among Infants attending Malaria units:

The incidence of malaria among infants under one year of age is considered a new infection. Only 565 blood films from infants were collected in Lower Egypt. Of these, 16 or 2.8% were returned positive. Of 25 films collected from Fayoum Province, 2 or 8% were positive.

4.—Types of Malaria:

Tables Nos. 115-117 give the incidence of all types of malaria in governorates and provinces provided with malaria units and ratios of each type to total positive cases.

5.—Monthly Distribution of Malaria:

Tables Nos. 118-121 give the monthly distribution of the various types of malaria.

8.—Malaria Cases and Deaths reported in governorates and Provinces during 1950 and 1951.

Table No. 122 gives the number of malaria cases and deaths reported to the Statistical Department from the governorates and provinces during 1950 and 1951.

7.—Survey of Mosquito Breeding Places:

Tables Nos. 123 and 123-a give the distribution of breeding places according to Darakat (zones) and tables Nos. 124 and 124-a give this distribution according to birkas and marshes in Lower and Upper Egypt. These show that the predominant species of mosquito malaria carrier was the A. pharoensis, followed by A. sergenti

Adequate control measures have been taken until these breeding places were finally disposed of by the competent ministries and departments.

8.—Malaria Control Activities:

Tables Nos. 125 and 125-a give details of kinds and quantities of insecticides consumed during the year and the surface of the areas controlled.

9.—Warnings and Contraventions:

Table No. 126 gives details of warnings and contraventions served under the Malaria law.

10.—Treatment and Drugs:

The same treatment technique was adopted this year as last year. Drugs were administered according to results of microscopic or clinical examination. Tables Nos. 127 and 127-a give the quantities of the various drugs distributed by the units.

II.—Application of Malaria Law:

No arrêtés forbidding the cultivation of aquatic plants were issued this year. Restrictions were enforced in localities covered by previous arrêtés.

Herebelow is a statment of the activities of the principal laboratory, the Cairo Anti-Mosquito Service, the Fayoum Campaign, the Sanitary Air-Squadron, and the Sanitary Engineering Service together with expenditures of the Central Administration, branches and units:

(a) Principal Malaria Laboratory:

During the year, this laboratory examined 28,087 blood films of which 678 were returned positive for malaria. The laboratory was manned by three laboratory assistants or a laboratory assistant more than last year. Besides, 1,245 samples of larvae and 1,304 samples of adult mosquitoes were examined.

(b) Cairo Anti-Mosquito Service:

The activities of this service comprised:

- (1) Systematic control of adult mosquitoes in habitations.
- (2) Systematic control of agricultural land and about a hundred feddans of surface area of seepage water.
- (3) The sanitation of water systems of habitations particularly those habitations which drain in cesspits numbering 87,779.

This service is manned by a total of 523 supervisors, surveyors, overseers and labourers.

Expenditures during the year amounted to L.E. 31,036.009 Mills of which L.E. 30,856.521 Mills. were for salaries and allowances and L.E. 181.388 Mills. for rents. Costs of insecticides were debited to Item 10 Supplies.

(c) Fayoum Campaign:

Organization and Expenditures:

Work was started early this year following the termination of the Gambia campaign at Aswan. Mosquito control was preliminarily started in the villages surrounding Fayoum Bandar.

It was organised on the principle of dividing the whole area into permanent units and sectors. Fayoum Province was thus divided into four districts, each under a supervisor. The districts were divided into sectors, each under a controller. The sectors were in turn, divided into units, each manned by 3–5 labourers under an overseer. This organization which was adopted to overcome transport and supplies difficulties was applied to Fayoum and Sennouris Districts which comprised a total of 93 Darakat (zones). There was besides a general team for spray painting distant habitations which cannot be reached by foot, with its headquarters at Fayoum Bandar. The units commenced work on 7/4/1951 in Fayoum District and on 8/5/1951 in Sennouris District. The rate of houses spray-painted continued to rise until a maximum of 9,492 houses consisting of 55,153 rooms were spray-painted during the month of May. Meanwhile larvae were systematically surveyed and controlled in Fayoum, Sennouris and Abshaway districts.

The strength of the campaign was 260 overseers and labourers under an engineer. They had at there disposal 4 vehicles, 4 mechanics for maintenance of vehicles and sprayers, 5 motor drivers and 3 motorcycles.

2.—Results:

(a) Adult mosquito survey:

The ratio of infestation after painting decreased from 1.2% in 1950 to 0.45% in 1951

(b) Malaria cases and deaths from 1946-1951:

Yea	ır		New cases	Relapses	Deaths
1946	• • •	•••	1,622	1,781	3
1947	• • •	•••	361	2,708	2
1948	•••	• • •	120	1,398	1
1949	• • •	• • •	82	611	
1950	•••	• • •	60	154	
1951	•••	• • •	89	3 8	

3.—Difficulties Encountered:

Shortage of insecticides and D.D.T. mixing equipment, damage of most sprayers and their old models, worn out means of transport and lack of spare parts represent these difficulties. The Malaria Section is endeavouring to overcome these difficulties with a view to accomplishing best results throughout the province by having all habitations spray-painted once a year.

4.—Expenditures:

These totalled L.E. 27,943.800 Mills. as detailed in Table No. 128, exclusive of cost of insecticides amounting to L.E. 38,518.996 Mills. which are debited to Item 10, Supplies.

(d) Sanitary Air-Squadron:

Details of activities of this Squadron are given in tables Nos. 109-112.

(e) Sanitary Engineering Service:

This Section is concerned with the laying down and execution of orders for the sanitation of houses in Cairo City. It was manned by two engineers. The sanitation of 16 houses was completed during the period from 1st March until June and 28 houses from July antil the end of the year. Total costs were L.E. 287.581 Mills. for the former and L.E. 965.876 Mills for the latter. L.E. 5,000 had originally been allocated for the purpose but were not expended owing to some difficulties.

(f) Expenditures:

The following is a statment of expenditures of the Malaria Section and its units distributed according to items of Budget:

General Budget:					To	FAL
1.—Title I:			L.E.	Mills.	L.E.	Mills.
	(Salaries-permanent staff)		20,160	109		
	(Salaries-Temporary staff)			933		
	(Salaries-Hors Cadre staff)	• • •	6,360	141		
	Infection-and Social Allowances	• • •	4,826	729		
			ž.		32,377	912

		To	OTAL
	1E. M	ills. L.E.	Milis.
2.—Title II:	Transport and Travelling allowance 2,082	207	
	Rents, water, light 3,213	878	
	Telegrams 43	330	
	Sundry 20	100	
		125	
	Porterage 38	104	
)	5,415	644
3.—Title III (New V	Works		
o.—IIII III (III)		Mills.	
		000	
	Ti (1) (1)	313	
		000	
		000	
) 00	,
	(from 1/7/1951–30/6/1952)		
			0.10
		103,825	313
	GRAND TOTAL	141,618	872

P.S.—Expenditures by Sanitary Engineering Service from March until end of June, 1951. amounted to L.E. 287.581 Mills.

100

Table No. 109.—The Santtary Air Squadron continued its Coxtrol work during 1951 as indicated below:

48		ſ									11
Average cost of spraying	the acre	Mills.	39.4	39.6	33.59	42.6	37.4	33 06	33.77	63 50 50	34.47
Total	expenses	L.E. Mills	206.306	6.00	983.483	20 50 64 64 64 64	9.43%	5000.1400	587.195	410.337	2,912.356
Area	acres		5,232	2,364	29,272	5,936	252	11,154	17,383	12,880	64,478
D. D. T. in Velsicol	20% in Gallons		354	165	2,182	361	87	784	1,219	305	1000
uo e:	Gallons		6.5	က က	24.5	တံ		ŵ	11.5	9.0	12.5
Benzine	Gallons		444	194	1,353	658	87	563	945	629	4,754
8]	Time	Min.	က	P	8	ဌာ	and the same of th	9	10	-	15
Total	Spraying Time	Hours	ಣ	13	18	10	O	88	21	37	91
7	Lime	Min.	14	00	35	26		24	32	21	164
Total	Hying Time	Hours	15	40	55	10	20	20	30	<u>1</u>	1.3
No. of	Sprayings		H	00	69	10	-	15	23	. 18	•
			:	1	•	*	:		:	•	TOTAL
				*	:	:	:	ŧ	:	:	To
			:	•	:	*	:	•	:	*	
			4	:	:	:	0) 9 0	:	:	•	
			:	eis	*	:	:	•	:	•	
4	200		:	Belh	2	•	Siro	d _C	•	•	
1			•	ege,	•	•	, co	8 are	:		
			50	Col	rea	9	c Clu	topn	9	:	
		-1	Auberg	ining	ace a	Pala	orting	d Me	•	•	-
			Fayoum A	Flying Training College, Belbeis	Qubba Palace area	Montazan Palace	Gezira Sporting Club, Cairo	Edfina and Motobus area	Dessouk	Idkou	, 1
R	Termina- ting Work		22/4	8/2	3/12	6/01	3/3	23/7	30/9	4/10	,
Date	Beginning Work		7/1	11/11	1/11	26/2	57 53	12/21	6/8	0/0	

TABLE No. 110.—RESULTS OF LARVAE SURVEY AT IDKOU AREA

Date	Survey	Units Examined	Positive	Rate	Pos. An.	Rate %	Pos. Culex.	Rate %
28-7 — 5-8	Pre - Spraying	849	388	64	269	32	155	18
6-8 19- 9	Post 1st ,,	1,485	283	19	275	11	19 8	13.3
20-8 — 4-9	Post 2nd ,,	2,190	515	23	317	14	243	11
5-9 25- 9	,, 3rd ,,	1,650	211	12.5	203	12	157	9
26-9 — 6-10	,, 4th ,,	680	93	13	46	_ 6.5	57	8.3

Table No. 110a.—Results of Adult Mosquito Survey at Idkou Area

Date	Survey	No. of Houses Examined	Positive	Rate %	Pos. An.	Rate %	Pos. Culex	Rate %
29-7-1-8	Pre-Spraying	189	120	63.5	120	_ 63.5	113	60.
1-10 — 8-10	Post ",	170	118	69.4	59	$34 \cdot 7$	58	34.1

Table No. 111.—Survey Work: Results of Aircraft Spraying Edfina and Motobus Area: from 12-7 to 18-7-1951)

Village	Survey		No. of units	Positive An.	Rate %	Positive An.	Rate %	Positive culex	Rate .
Mehallet el Amir	Pre-Survey	• • •	177	86	48.6	67	37 · 9	19	10.7
	Post Survey	•••	523	159	30.4	89	17	70	13.4
Motobus	Pre-Survey	•••	177	102	57.6	83	46.8	21	11.8
	Post-Survey	•••	802	213	26.5	96	11.9	117	14.5

Table No. 112.—Results of Larvae Survey in Desouk Locality (from 5-8 to 10-10-1951)

		,	Ri cultiva		Canal Rice		Oth	- 1	Infiltr wat		Well sak	s and	Ot Pla	her ces	To	TAL	
Area	Sur	vey	Unit Exam.	Positive	Units	Positive	Units	Positive	Units Examined	Positive	Units Examined	Positive	Units	Positive	Units Examined	Positive	%
A. Sec. 1,2,3	Pre-Sp	raying	282	48	291	47	363	71	68	13	101	5	269	51	1337	245	18,3
	Post	"	2496	430	1936	325	3021	491	53 3	116	899	66	2058	346	10950	1766	16,1
B. Sec. 4,5,6,7	Pre	,,	.474	137	270	71	465	87	69	20	46	. 8	175	81	1599	554	22,1
	Post	,,	3943	818	1659	409	4735	782	599	184	33 8	56	1412	232	12809	2481	1936
C.S. 8, 9, 10	Pre	,,	187	75	75	21	75	9	20	3	15		65	16	437	128	2929
	Post	,,	1722	708	774	239	1017	273	145	47	196	-	902	303	4770	1210	33,7

Table No. 113.—Distribution of blood stecimens from Patients Attending Malaria units and their branches and ancylcostoma Hospitals

T 124			No. of	Posi	tive	m , 1	Rate	D 1
Locality			Specimens	New	Relapses	Total	%	Remarks
Lower Egypt	•••	• • •	38,526	1,011	4,813	5,824	15.1	
Upper Egypt	•••		10,081	74	491	565	5.6	
Total	•••		48,607	1,085	5,304	6,389	13.1	

Table 113a.—Distribution of Blood specimens for General Survey, taken by Malaria Units and their Braches, and Ancylostoma Hospitals

	No. of	Posi	tive	Total	Rate	Remarks
Locality	Specimens	New	Relapses		%	A COLLON IND
Lower Egypt	147,184	777	1,039	1,816	$1\cdot 2$	Including 42 new
Upper Egypt	07 490			358	0.39	Quartan malaria
		0*/4	4 004	0.184		
Total	238,623	870	1,304	2,174		

TABLE No. 114.—DISTRIBUTION OF MALARIA CASES ACCORDING TO TYPES IN LOWER EGYPT AND CANAL GOVERNORATE DURING 1951.

Province			Total of	Rate	Ber	ign Tert	ian	Mali	gnant T	ertian	Total of	positive
· or Governora	te	Specim- ens	Posit. Cases	per cent	No.	New	Relapse	No.	New	Relapse	New	Relapse
*												
Canal	• ••	229	72	31.4	72	65	7				65	7
Suez	• ••	1,229	4	0.32	4	. 3	1				3	1
Western Desert	·	750	87	11.6	44	20	24	43	15	28	35	52
Behera	• ••	4,060	560	13.7	513	68	445	47	13	34	81	476
Fouadia	• ••	7,348	1,797	24.4	1,574	20	1,554	223		223	20	1,777
Gharbia	• ••	. 2,153	172	7.9	161	46	115	11	2	9	48	124
Dakahlia	• ••	7,794	685	8.7	677	496	181	8	5	3	501	184
Sharkia	• ••	6,207	1,316	21.2	1,207	242	965	109	7	102	249	1,067
Menoufia	• ••	. 2,618	53	2,02	53		53					53
Kaliubia		6,138	1,078	17,5	837	6	831	241	3	238	9	1,069
TOTAL	• ••	. 38,526	5,824	15.1	5,142	966	4,176	682	45	637	1,011	4,813

TABLE NO. 115.—DISTRIBUTION OF MALARIA CASES ACCORDING TO TYPES IN UPPER EGYPT AND THE SOUTHERN DESERT GOVERNORATE DURING THE YEAR 1951.

Province			Total of	Rate	Ben	ign Tert	ian	Malig	nant Te	rtian	Total of	positive
or Governora	•	Specim- ens	Posit. Cases	per cent	No.	New	Relapse	No.	/New	Relapse	New	Relapse
~.												
Giza	•••	1,065	316	29.6	296	8	288	20	1	19	9	307
Fayoum	•••	3,324	104	3.1	83	18	65	21	2	19	20	84
Beni Suef	•••	1,055	23	2.1	21	18	3	2	1	1	19	4
Minia	• • •	383	37	9.6	35	- 14	21	2	1	. 1	15	22
Assiut	•••	567	16	2.8	16	6	10			_	6	10
Southern Deser	t	1,802	24	1.3	24	3	2!	<u> </u>		_	3	21
Gerga	•••	1,229	5	0.4	5	_	5					5
Qena	• • • •	656	40	6.1	40	2	38		_		2	38
Aswan	• •••											
Total	• •••	10,081	565	5.6	520	69	451	45	5	40	74	491

TABLE NO. 116.—MALARIA CASES OF ALL TYPES IN LOWER EGYPT AND CANAL AND THEIR RATIO IN THE GENERAL SURVEY

Province			Total of	Total of positive	' Mate	Ben	ign Tert	ain	Malio	nant Ter	rtian	Total p	
Governe	rate		specimens	cases	0,7	No.	New	Relap.	No.	New	Relap.	New	Relap.
Canal	•••	•••	5,592	90	1.6	90	90	-		- Option on		90	-
Suez	•••	•••	5,482	2	0.03	2		2					2
Western I)eser	t:	8,284	372	4.4	40	12	28	197	157	40	311	68
Behera	•••	•••	17,668	128	0.71	74	33	41	48	6	48	39	89
Fouadia	•••	•••	19,590	87	0.44	87	3	84				3	84
Gharbia	•••	•••	18,308	113	0.61	100	45	55	3	3		48	65
Dakahlia	• • •	•••	22,215	311	1.3	302	101	201	9	-	, 9	101	210
Sharkia	• • •	•••	25,534	410	1.2	382	163	219	28	1	27	164	246
Menoufia	•••	•••	11,460	217	1.8	217	1	216	Short vita	-		1	216
Kaliubia	••••	•••	13,051	790	6.005	27	9	18	52	11	41	20	59
												20/10/20	4 000
Total	•••	•••	147,184	1,809	1,22	1,321	457	864	353	178	175	777	1,039

N.B.—The above Total includes 142 new quartan malaria.

TABLE No. 117.—MALARIA CASES OF ALL TYPES IN UPPER EGYPT AND THEIR RATIO IN THE GENERAL SURVEY

Province			Total of	Total of positive	Rate	. Ben	ign Tert	ian	Malig	gnant Te	rtian	Total 1	positive
Governo	rate		specimens	cases	%	No.	New	Relap.	No.	New	Relap.	New	Relap.
								,					
Gîza	•••	•••	9,738	27	0.27	18	1	17	9	2	7	3	24
Favoum	•••	•••	16,699	70	0.41	64	24	40	6	6	ort storage	30	. 40
Beni Suef	•••	•••	7,728	43	0.55	34			9	4	5	36	5
Minia	•••	•••	7,872	42	0.53	33	13	20	9	2	7	15	27
Assiut	•••	• 6 •	5,765	9	0.15	9	1	8	disability.	men, dipo		1	8
Southern Gov.	De	sert	6,263	39	0.62	39	6	33		manphaser		6	83
Gerga	•••	•••	5,127		stanti-nettes	generates	-					-	-
Qena	•••	•••	28,219	128	0.45	126	gagalarmaya	126	2		2		128
Aswan	•••	•••	4,028				regularies.						
Total	•••	• • •	91,439	358	0,39	323	79	244	35	14	21	93	265

Table No. 118.— Monthly Distribution of malaria cases according to types in Lower Egypt and Canal and Suez Governorates during 1951

	Total	Total	Rate		Benign	Tertain			Malignan	t Tertair	1
Month	Speci- mens	Positive		No.	New	Relap.	Rate %	No.	New	Relap.	Rate %
,											
January	3,154	211	6.6	134	25	109	63.5	77	4	73	36.5
February	2,515	233	9.2	161	40	121	69 · 1	72		72	30.9
March	3,273	373	11.3	324	61	263	86.9	49		49	13.1
April	3,910	606	15.5	570	114	456	94 · 1	36	3	33	5.9
May	3,562	691	19·4	683	130	553	98.8	8	<u></u>	8	1.2
June	1,398	366	26 · 1	344	15	329	93.9	22		22	6.1
July	. 4,578	803	17.5	756	138	618	94 · 1	47	-	47	5.9
August	4,843	926	1 9·1	838	197	641	90 · 4	88	2	86	9.6
September	3,731	628	16.8	551	106	445	87 · 7	77	4	73	12.3
October	3,183	636	19.9	500	1 01	399	78.6	136	22	. 114	21 · 4
November	2,544	242	95	190	25	165	78.5	52	8	44	21.5
December	1,835	109	59	91	14	77	83.4	18	2	16	16.6
Total	38,526	5,824	15.1	5,142	966	4,176	13 · 34	682	45	637	1.77

Table No. 119.— Monthly distribution of Malaria cases according to type in Upper Egypt and the Southern Desert Governorate during 1951

			Total of	Total	Rate		Benign	Tertain		2	Malignant	Tertian	
Month		***	Speci- mens	Positive	Per cent	No.	New	Relap.	Rate	No.	New	Relap.	Rate
January	•••	•••	568	18	3.16	16	6	10	2.86	2	2		0.35
February	• • •	• • •	674	13	2.28	13	6	7	2.28				
March	• • •	• • •	978	25	2.55	23	5	18	23.5	2	1	1	2.04
April	•••	• • •	956	33	3.45	32	12	20	33.3	1		1	0.1
May	•••	• • •	1,052	31	2	31		31	2.0		· —		_
June	•••	• • •	488	52	10.6	51	4	47	10.5	1		1	0.2
July	• • •		1,161	94	8.09	94	4	90	8.09			_	
August	• • •	•••	848	112	13.2	106	10	. 96	11.3	6		6	0.7
September	• • •	• • •	900	63	0.7	57	10	47	63.3	6		6	0.66
October	•••	• • •	998	72	7.2	57	9	48	0.66	15	1	14	1.5
November	• • •	• • •	769	36	5.7	26	3	23	2.6	10	1	9	1.3
December	•••	• • •	689	16	2 ·03	14		. 14	20.3	2	-	2	0.3
Total			10.081	565	5.6	520	69	451	5.1	45	5	40	4.1
A U RASA	• • •	***	AV, UOR	200	0.0	0.7 (m)	77.7	佐砂県	9.P. A	'Act	6,0	70	* A

TABLE NO. 120.-Monthly Distribution of Malaria Cases (General Survey) in Lower Egypt During 1951

	Relap. Rate per cent	-	1	0.0	0.1	80.0	1		0.5	10.04	0.02	0.1	0.1	0.0
Quartan	New R	 	1	34	18	14			- 23	9	<u>-</u>	- 22	00	143
L	No.	1	The second secon	34	18	14	direction	li de la companya de la companya de la companya de la companya de la companya de la companya de la companya de	23	9	1	22	18	142
	Rate per cent	0.1	0.1	0.2	0.4	0.07	0.008	0.008	0.14	0.1	9.0	6.0	۲. نئ	0.0
Tertian	Relap.	15	11	ಬ	0	9	diament of the second		1	17	65	20	6,0	175
Malignant Tertian	New	6		71	- 56	9	F-1	1	14	9	11	20	13	138
	No.	24	12	92	55	12	H		14	23	92	40	39	600 A100 600
	Rate per cent	0.5	0.1	8.0	1.3	1.3	2.0	2.0	<u></u>	6.0	1.02	2.0	0.4	ox e
ertian	Relap.	35	22	80	133	170	22	102	65	61	98	47	38	864
Benign Tertian	New	27	.79	35	53	31	29		69	48	38	36	81.	<u> </u>
	No.	62	101	115	162	201	98	93	134	109	124	83	51	1 291
	%	2.0	6.0	1.6	1.8	1.4	2.0	8.0	1.4	Ţ. Ţ	1.1	1.2	6.0	6.
Total of	positive cases	86	113	225	215	227	87	94	171	138	207	145	108	200
Total	sue	11,516	11,951	13,813	11,727	15,438	12,179	11,733	11,447	12,497	12,145	11,744	10,994	14%
	3	•	:		•	*	*			•		•	•	
	•	:		:	:	•			0 0	•	•	:	:	
	th	:	:		•		:	•	•		•	•	:	E
	Month	:	•	•	:	:	:	•	a a	•	•	:	•	
		January	February	March	April	May	June	July	August	September	October	November	December	

Table No. 121.—Monthly Distribution of Malaria Cases (General Survey), in Upper Egypt During 1951

			Total of			Benign	Tertian		I	Malignan	t Tertian	
Month		Total of specimens	positive	dividina	No.	New	Relap	Rate per cent	No.	New	Relap	Rate per cent
January		7,575	49	0.64	39	14	25	0.51	10	5	.5	0.13
February	• • •	7,346	28	0.38	29	4	22	0.35	2	2	92,00-400	0.033
March	• • •	7,909	38	0.48	35	3	32	0.45	3	1	2	0.03
April	• • •	6,802	25	0.35	21	′5	16	0.30	4	-	4	0.06
May	•••	7,182	18	0.25	16	3	13	0.225	2		2	0.025
June	• • •	7,212	24	0.332	22	6	16	0.305	2		2	0.027
July	• • •	5,695	9	0.158	7	3	4	0.113	2	1	1	0.035
August	•••	8,077	21	0.25	19	8	11	0.23	2	2		0.02
September	• • •	6,860	60	0.86	59	3	. 56	0.85	1		1	0.01
October	• • •	9,071	32	0.35	31	7	24	0.34	1		1	0.01
November	•••	8,243	17	0.2	14	3	11	0.16	3	1	2	0.03
December	• • •	9,467	37	0.38	34	20	14	0.35	3	2	1	0.03
TOTAL	• • •	91,439	358	0.39	`323	79	244	0.35	35	14	21	0:03

TABLE No. 122.—NUMBER OF MALARIA CASES AND DEATHS NOTIFIED DURING 1950 AND 1951

New Malaria Cases Relapsed Mal ria Cases												
. Province or			}		Differ	ence	Relapsed Mal ria Cases					
Governorate	1950		19				1950		1951			
	Сазоп	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths		
			•									
Cairo	509	4	341	3	168	- 1	8		6			
Alexandria	91	1	116		+ 25	- 1		-		THE PERSONS ASSESSED.		
Ismalia City			8		+ 8							
Suburbs			7		+ 7	-						
Port Said City		-	32		+ 32		_					
Suburbs	-		***************************************					_				
Damietta		-	2		+ 2		Tellinos	-				
City,	-		7	16	+ 76	+ 16	_	-	4			
Suez Suburbs	307	_	376			_	6	-	37			
Southern Desert			2		+ 2	_			_			
Western Desert Gover-			315		+315				99			
norate			313		+ 3				33			
Sinai and Red Sea	188	3	324		+136	_ 3	7		40			
Behera	271	1	95		—17 6	_ 1	7		19			
Dakahlia	182		37		—145	_ 1	1,291		478	Weekling		
F. 4adia	129		116		— 13	_ 1	7,301		710			
Gharbia	26		21	1	_ 5	_ 2	84		69			
Menoufia	418		105		—313		* 33		38			
Kaliubia	935		598	2	—337	+ 2	31		127	- Minaria		
Sharkia			0.00			-			1			
Aswan	71		12		— 59	_	1			-		
Assiut	239		71		-168	-	1		5	- CONTRACTOR OF THE PARTY OF TH		
Beni Suef	60		88	2	+ 28	+ 2	154	-	38			
Fayoum	12		2	-	— 10				2			
Gerga	254	1	53		-201	_ 1	1	_	_	-		
Giza	515		232	1	-28 3	+ 1	5	_	1			
Minia	48		11	-aproxes	— 37		16	D-Anthropisms	43			
Qena	40											
Total	4,255	15	2,598	25	-1,657	+ 10	1,645		904			

Table No. 123.—Distribution of Anopheles Larvae in Lower Egypt during 1951

Province or		No. of		Anopheles	Other	D			
Governorate	Station	Larvae	Phar.	Mult.	Sergen.	Mouri.	species	Remarks	
								•	
Canal	Ismailia	168	119	7	_	42	<u> </u>		
Suez	Suez	10	10				_		
1	Baharia	13		4	9		er inquer		
Western Desert	Siwa		_		1 _		<u> </u>		
(Wadi el Natroun	388	43	155				190 un-	
		4 000	4 700			107		known species	
. (Idkou	4,263		_		131	_		
Behera	Kafr el Dawar.	4	4		—	_	_		
	Damanhour	48	25		—	_	23		
1	Fowa	193	104	11_	_		_	89 culex	
	Dessouk	26	26				_		
Fouadia	Kafrl el Sheikh.	132	40			_	_	756 & 170	
	Biala	36	12	1				23 c. pip	
,	m	167	167					•	
	Tanta Mehalla Kobra	36				3			
Gharbia		31	21	10					
\	Belcas	01		10					
1	Mansoura	41	39		_	2			
Dakahlia	Fareskour	52	43		1	8			
Гакаппа	Dekernis	31	31			_	_		
1	Mit Ghamr	15	14	2			<u>, </u>		
1	Zagazig	112	110		_	2			
	Belbeis	142				6	65		
Sharkia	Inshas	-	_	,	_				
	Abu Kebir	157	68	3		_	_	86 . C.	
Menoufia {	Shebin el Kom.	24	24						
	Ashmoun	22	22		1 - 1	-			
(Toukh	70	65	4		1	_		
Kaliubia {	Kaliub	282	282	-	_	. —	_		
				400			207		
	TOTAL	6,463	6,203	186	10	64	305		

Table No. 123a.—Distribution of Anopheles Larvae.
IN Upper Egypt during 1951

Province or		27	And	pheles Spec	eies		
Governorate	Station	No. of Larvale	Pharo.	Mult.	Sargen.	Other species	Remarks
· · · · · · · · · · · · · · · · · · ·							
Gîza	Gîza	11	11				
Fayoum	Fayoum	11	7	1			4 Culex
Abshaway	Abshaway	5	1				4 ,,
Beni Suef	Beni Suef	14	13	1		. Obvedenska	
Minia	Minia	444	359	11		74	
Assiut	Assiut	35	14	1			20 Culex
Frontier Gov	Dakhla Oasis	211	53	129	29		
Southern Desert (Kharga Oasis	286	197	89	_		
Gerga	Souhag	81	81			, and the state of	•
1	Nag Hammadi	115	114	1			
,	Qena	10	10				٠
Qena <	Luxor	58	5 8				
	Armant	18	18			an-reimain	
, ,	Mataana	48	46	2			
(Kom Ombo	69	67	2			
Aswan {	Aswan	5	5	-			
	TOTAL	1,421	1,054	237	29	74	28 Culex

Table 124.—Showing Number of Villages Surveyed and Birkas found harbouring Larvae of Anopheles and Culex Pipiens, in Lower Egypt and Canal Governorates during 1951

		,	No. o i		Posi	tive		s harbo		Birkas harbou-
Province or Governorate	Station		Village Surve- yed	birkas exami- ned	No.	%	Phar.	Mult.	Other	ring Culex Pipiens
Canal	Ismailia		9	79	37	Administration	26	1	12	37
Suez	Suez	•••	4	40	22	•				22
Western Desert	Siwa Baharia Wadi el Natroun	• • • • • •	4	<u> </u>				· -		<u>-</u>
Behera	Idkou Kafr el Dawar Damanhour			<u>-</u> - 44	<u> </u>		<u> </u>	Grandenia Grandenia	3	Santanana Santanana
Fouadia {	Fowa Dessouk Kafr el Sheikh Biala	• • • • • • •	2 	2 - -	_ _ _		2 	=		
Gharbia	Tanta Mehalla Kobra Belcas	•••	5 2				5 -			$-\frac{7}{3}$
Dakahlia	Mansoura Fareskour Dekernis Mit Ghamr		3585	6 7 59 5	2 1 —		_ _ _			2
Sharkia	Zagazig Belbeis Inshas Aboukebir		12 3 —	28 34 — —	27 33 — —		9 - -			27 27 —
Menoufia	Shebin el Kom	••• •••	6	20	7		1	_		7
Kaliubia }	Toukh Kaliub				10	_	_ 7	. —	_	_ 5
	TOTAL		, 98	378	171		70	1	15	137

Table No. 124 a.—Number of Villages Surveyed and Birkas Found Harbouring Larvae of Anopheles and Culex Pipiens, in Upper Egypt, During 1951

Province	Stat 'n		Vinet annual	'n		of ges syed	rkas nined	Positive birkas for Larvae		Birka An	uring 780	Birkas har- bouring	
or Governorate			/H			No. of villages surveyed	No. of birkas examined	No.	%	Phar.	Mult.	Other	Culex Pipiens
· Gîza	Jiza				• • •	45	113	69		11			9(4)
Fayoum {	Fayou 1			• • •							Germalang	_	
	Beni '		•••	• • •		4	8				and the state of t		
Minia Assiut	Mînia Assiut	• • •	•••	•••	• • •	10	3 52	8	16	4		7	
Southern Southern Desert }	Dakhla O	asis	• • •	• • •	***		•					atherinege	
Gerga	Kharga O Souhag	asis		•••	• • •	5	20	2	5	2		-	
1	Nag Ham	mad	i	9 + 0	***						<u> </u>		† -
Oone	Qena Luxor	• • •	• • •	• • •	• • •	2	180	6		1	_	5	
Qena $\begin{pmatrix} & & & \\ & & & \\ & & & \end{pmatrix}$	Armant	• • •	***	• • •		2	385			-	_		-
	Mataana	•••	•••	• • •	•••		— 7	5		— 5	-		
	Kom Oml		• • •	• • •	• • •	2	2	2		2	Generalizates	stratoraja	-
		То	TAL	. • •	• • •	85	776	92	11.85	25	1	13	. (3

Table No. 125.—Quantities of Different Larvicides Consumed for Malaria Control in Lower Egypt during 1951

IN POARE LIGILL DORING 1995												
Province or Governorate	Station	Pure D.D.T. kgs.	Malariol kgs.	D.D.T. with Malariol kgs.	Water suspension kgs.	D.D.T. with Velsicol kgs.	Paris green kgs	Other kinds kgs				
	3											
Canal	Ismalia		- Communication of the Communi	1234 · 892								
Suez	Suez	-	***********	4694.000	_							
1	Siwa		Street, Street,	Name of the last o								
Western \\Desert \	Baharia				-	-						
	Wadi el Natroun.		gualdette	1615 • 945	and the same of th	**************************************						
(Idkou	17	6,839.500		2,059			129 DDT				
Behera }	Kafr el Dawar		1,294.250	`		2,000		Emulsion 863 Coo-				
(Damanhour		· ·	5,500	***************************************		_	king gas				
	Fowa			5,272	_			_				
	Dessouk			6,009	-	-		_				
Fouadia	Kafr el Sheikh	(Chillippensis)		5,187	_		141	_				
	Biala	_		4,400			_					
	Tanta	_	- Continuency	10566 • 250		Орушнанда						
Gharbia	Mehalla Kobra		- Continuence	5785 650		-						
	Belcas	45.4		5877 · 300		The property and						
	Mansoura		10,519.500	_		*	_					
Dakahlia (Fareskour	-	5,859.800			1,651.700	-	1,078·2 Coo				
Dakamia	Dekernis			5686.030		600.000		king gas				
1	Mit Ghamr		permenug	3706.800		-						
	Zagazig		-	9074.200								
	Belbeis		8,560	-		-						
Sharkia {	Inshas			-	Strange	Signatura (1935)	SP Mildermale					
	Abukebir		Norman									
			2 252 522									
Menoufia {	Shebin el Kom	38.2				Thysmore (III)	40.15					
(Ashmoun			3519.533		Функция	**************************************	Name and the last of the last				
	Toukh			6549.000	6,561.8	*****	e Companie	_				
Kaliubia	Toukh Kaliub			10752			_	_				
	TOTAL	100.6	39,725.550	95225,6	8,620.8	4,251.7	181 · 10	1,941.2				

The second secon	Other kinds	. 1	11	967 Kerosene	et man		1,450 D.D.T. Oil	1,252 Velsicol	ı	22,500 Fatak	11			
DURING 1951	Paris grean Kgs.						671.500	Terrorent	1 1		1 1	1.170.250	181.150	1.351.400
IN UPPER EGYPT	D.D.T. with Velsicol Kgs.	1		006							1 1	006	4.251.700	5.151.700
FOR MALARIA CONTROL IN UPPER EGYPT DURING 1951	Water suspension Kgs.			16	1			1		11	11	9	8.620.800	8.636.800
CONSUMED FOR MA	D.D.T. with Malariol Kgs.	30.626		8,801.250	14,700.380	3,263.455	2,875.275	2,122.750	6,524.550	4,668.275 4,915.345	79,73,328	103,794.103	95,225.600	19,901.703
	Malariol Kgs.				ļ		1 1						39.725.550	39.725.550
a.—QUANTITIES OF DIFFERENT LARVICIDES	Pure D.D.T. Kgs.				1		1 1			107.121		107.121	100.600	207.221
Table No. 125 a.—Quantities	Province or Governorate Station	Gîza	Fayoum Abshaway	Beni Suef Beni Sucf	Minia Minia	Assiut Assiut	Southern Desert { Kharga Oasis	Gerga Eouhag	ımadi	Qena Luxor	Aswan Kom Ombo	TOTAL	Total: Lower Egypt	GRAND TOTAL

TABLE NO. 126.- NUMBER OF WARNINGS AND P.VS. OF CONTRAVENTION SERVED OUT BY MALARIA UNITS IN UPPER AND LOWER EGYPT DURING 1951

tion or f Cesspits	P.V8	1 1					9		0	9
Evacuation or Covering of Cesspits	Ws.						ا ا ا ا ا ا	1	9	10
Prohibition of the and Sugar cane cult.	P.Vs	. 94	ස 		7.9		1111		1	62
Prohibition of Rice and Sugar	Ws.		1 1 1 1				1111			!
Clearing Drains or miskas	P.Vs				63		4		4	မ
Clearing Dra	Ws.	11	13 13		61		1		00	28
Filling in or lovering over mased Wells or kias and aboli-shing pumps	P.Vs	9			90		63		20	=
Filling in or Covering over disused Wells or sakias and abolishing pumps	Ws.	22	1	- 10 H	ကေ		ω m ω	,	201	70 A4
Pits or	P.Vs	l		11	ಣ		e		2	9
Burow Pits Puddles	Ws.		2	10	24		37	Ş	3	98
Units		Ismailia Damanhour	Dekernis Shebin el Kom Zagazig	Toukh Kaliub	Total		Giza Abshaway Beni Suef Assiut			GRAND TOTAL
Province or Governorate		B EGYPT	Dakahlia Menoufia Sharkia	Kaliubia {		UPPER EGYPT	Fayoum Beni Suef Assiut			

Table No. 127.—Quantities of Different Drugs Administered for Treatment of Positive Cases, in Lower Egypt during 1951

Province or Governorate	Station	Quinine 5 Gr.	Quinine 2 Gr.	Quinine chocolate	Atebrine.	Plasmochin g Cm.	Plasmochin 1 Cm.	Blaud's Pills	Paloudrin	Aralin
Canal	Ismailia									_
Suez	Suez		_		85			_		_
Western Desert	Siwa Baharia Wadi el Natroun.	195	30 — —	45 — —	4,951 — 12	_	_	50 1,000		. =
Behera {	Idkou Kafr el Dawar Damanhour	268 24 —		 135	6,872 808 306	272 — 42	65 — —	3,754 2,917 1,640		165,5 333 467
Fouadia	Fowa Kafr el Sheikh Dessouk Biala	1 707	 1,164 	49 1,116		_ _ _		2,120 3,361 4,792 1,000	_	
Gharbia {	Tanta Mehalla Kobra Belcas				1,973 2,591 1,000		60 —	2,500 3,203 1,000		10 — —
Dakahlia	Mansoura Fareskour Dekernis Mit Ghamr			 	753 2,767 1,109 3,465			1,260 5,596 2,135 1,900		
Sharkia {	Zagazig Inshas Belbeis Abu Kebir	3,516			665 9,708 2,464 —	76		740 7,017 970 —		370 — —
Menoufia $\left. \dots \right. \left. \left\{ \right. \right. \right. $	Shebin el Kom Ashmoun		_		12,473 610		· —	3,095	_	_
Kaliubia {	Toukh Kaliub		_	 88	10,063			1,230		
	TOTAL	4,747	4,016	1,732	74,144	390	714	50,310	469	2,399.5

Table No. 127 a.—Quantities of Different Drugs Administered for Treatment of Positive Cases in Upper Egypt during 1951.

Province or Governorate	Station	Ω ne 5 Gr,	Q ne 2 Gr,	Q ne Choco- late	Ateb p	Plasmochin comp l Cm	Blaud's Pills	Paloudrin	Aralin
Giza	Gîza			110		128			20
Fayoum }	Fayoum			2,789	6,352	3,000	7,332		_
(Abshaway		_	_	741	_	<u> </u>		_
Beni Suef	Beni Suef			_	5,680	_	7,153		_
Minia	Minia			, 100	1,595	do-hopetta	395		
Assiut	Assiut			40	1,822		4,301	_	_
6 11 5 (Dakhla Oasis	72		_	1,227		921		-
Southern Desert	Kharga Oasis	500		_	120		6,000	_	30
Gerga	Souhag	_		_					
1	Nag Hammadi	_	_		7,000	-	2,300	_	_
	Qena	_	_		3,825	_	- Annual Control of the Control of t	_	
Qena {	Luxor			_	13,000		$\frac{1}{2,500}$		_
	Mataana				12,500		3,500	_	Character
(Kom Ombo								
A				<u>.</u>	16,000				
Aswan	Aswan				10,000				
- 1	Bellana								
TOTAL	' Upper Egypt	572		3,039	77,029	3,128	36,515		50
	-								
Total 3	Lower Egypt	4,747	4,016	1,732	74,144	390	50,310	469	2399.5
G	FRAND TOTAL	5,319	4,016	4,771	151173	3,518	86,825	469	2449.5
		*							

TABLE NO. 128.—FAYOUM CAMPAIGN EXPENDITURE (FRO 1 JAN. TO DEC. 1951)

Milla.

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2,027

Title I					
			L.E.	Mills.	L.E.
Item	a Salaries	(Permanent and Temporary Posts)	152	845	
	~ 1 .	AMERICAN AND THE PROPERTY OF T			

	Item	a Salaries (Permanent and Temporary Posts)	152	845		
	3 7	c Salaries (Hors-Cadre)	294	208		
	,,	h (Infection Allowance)	65	500		
	,	h (Social Bonus)	49	578	× .	
					562	131
m. a m						
Title II						
	Item	2 (Transport & Travelling)	10	894		
	92	5 (Rent)	168	120		
	"	5 (Water)	. 1	377		
	,,	7 (Telegraphs)	5	316		
	32	8 (Miscellaneous)	. 0	450		
	,,	10 (Supplies)	1,834	. 282		
	33	13 (Maintenance)	. 1	855		
	,,	14 (Porterage)	. 4	900		

Title III

General Budget :-

GRAND TOTAL			27,943	800
			25,354	481
Item 24 "Cadre Amelioration"	3	036		
Against Gambia Funds	72	450		
Emergencies: High cost of living allowance 11	,162	470		
Item 22 "Wages Army Labour"	24	600		
14	,091	925		
Other works: Purchase of benzine, oil and motor-car repairs 331 899				
Item 19 (New Works) 13,760 026.				
L.E. Mills.				

Exclusive of cost of Insecticides debited against Item No. 10 "Supplies", amounting to L.E. 38,518.996 mills.

Chapter XXII-Insect Control

Mosquito Control Branch

A.—The experimental station:

1.—Malaria school:

Two groups of 5 engineers each, and a group of 4 laboratory assistants have attended the Senior and Junior courses respectively and all passed with success.

Dates of the Senior courses were from 10/3/51 to 23/6/51 and from 27/10/51 to 6/2/52. Dates of the Junior courses were from 10/2/51 to 21/5/51

2.—Collection:

New additions were made following the survey of El Tor, Red Sea Coast, Dakhla and Kharga oases. Teaching collections of blood films and insects were expanded.

3.—Sorsok:

Houses of this small village (113 houses) were spray-painted once in July with a 15% arkotin diluted to 5% to study the effect of spray-painting alone (i.e. without any treatment of breeding places which abound in neighbouring rice cultivations) on mosquitoes and malaria.

Results:

- (1) No effect on the larval density.
- (2) No effect on the ratio of positive houses for adults.
- (3) Not a single malaria case among infants (less than 1 year), and only one relapsing case among children of 5-12 years old and not a single case among adults examined in June.
 - (4) Cost: 158 milliemes per head.

4.—El Khosous:

Breeding places within one kilometer around this village are sprayed with 3.5 % Gammexane in malariol. This process is considered as a model demonstrattion for students of the Malaria School.

Results:

- (1) Decrease in the ratio of positive units for anopheline larvae in the period from January to the end of July, compared to the same period in 1949 or 1950. Whereas the highest ratio in 1949 was 6.7%, this became 1.04 %in 1951, and never exceeded 1.26% in May.
- (2) In August and September, however, this ratio increased to 3 and 3.3% as compared to 1.17% and 0.18% in the preceding year. This is attributed to the use of a kind of thick malariol having poor spreading power. The section was informed in time of its bad quality.
- (3) Ratio of adult mosquitoes decreased appreciably compared to 1949 or 1950. If July is taken as a standard (having the highest figures in all three years) it is observed that the ratio of positive houses for adult mosquitoes was 30.9% in 1949 and fell to 12% in 1950 and to 6.8% in 1951.
- (4) Only two cases of malaria were recorded in 1951 or a ratio of 6.12% as against 0.3% in 1950.

(5) Cost:

Totalled L.E. 811.615 Mills. or 203 mills. per head per year.

B.—Field station:

I.—Dakhla and Kharga oases:

The two oases were surveyed in May to ascertain the extent of the area reinfected with A. sergenti. A. sergenti was previously eradicated from the two oases during 1946–1948. It was not heard of until April 1951, when it was reported from Dakhla oasis.

- (1) Survey proved that Kharga was still free from A. sergenti. Larvae of A. pharoensis and A. multicolor were found and only adults of A. multicolor.
- (2) Larvae and adults of A. sergenti were found in all villages of Dakhla except Teneda and Balat.
- (3) A. sergenti specimens came mostly from Rashda, Mouchia and Gedida and to a lesser extent from Kasr and Fatima and least from Maasara. The distribution of A. sergenti indicates the presence of a focus which lies in the triangle joining Rashda, Mouchia and Gedida.
 - (4) Larvae and adults of A. multicolor and A. pharoensis were found in all villages.
- (5) Source of reinfection with A. sergenti is probably through planes coming from Farafra oasis and landing at Rashda aerodrome about the end of June 1949.
- (6) A post for flitting vehicles leaving Dakhla for Kharga was established to protect the latter from reinfestation.
 - (7) It is planned to eradicate A. sergenti from Dakhla again in 1952.
 - P.S—Survey of Dakhla and Kharga lasted two weeks from 16/5/51 31/5/51.

II.—Tor:

Reports were received that the death rate in Tor was above the normal. Malaria was suspected as the cause on the assumption that A. Gambia might have escaped on board vessels arriving from Arabia.

Tor is a port on the Red Sea with a population of 1500 inhabitants. It is a narrow strip of land parallel to the sea together with 3 or 4 scattered areas only a few kilometers from the main port.

Breeding places in Tor are the following:

(a) Infilteration water:

In which A. d'thali, A. multicolor and A. sergenti and Culex deserticola were found.

(b) Springs and spring channels:

Suitable for drinking and irrigation. A. d'thali, A. sergenti and Culex pip ins were found.

(c) Wells:

In houses. C. pipiens and Theobaldia, longiarcolata were found. No gambiae larvae were found: nor do favourable gambiae breeding places exist in Tor.

One adult A. sergenti was caught in a house — other adult mosquitoes caught were all Culex pipiens.

242 blood films were taken and all were negative for malaria.

Causes of death were attributed to other factors than malaria.

Tor was surveyed from 11-1-1951 — 16-1-1951.

III.—Red Sea Ports: (from 12/2/1951 — 23/2/1951).

Red-sea ports were surveyed for Aedes aegypti and Anopheles gambiae that might have invaded the coast from Saudi Arabia.

Ras Ghareb:

Is 240 kilometers to the South of Suez. Population 4,000, a modern town. All buildings are spray-painted regularly. Flies are the chief trouble but not mosquitoes. No surface water favourable for mosquito breeding exists. Zeers are present in some houses but all were negative for Aedes larvae.

Hurghada:

Is 400 kilometers to the South of Suez. Population 1,000. The port receives ships arriving from Suez and occasionally from Saudi Arabia. A ship from Saudi Arabia was examined and found negative for larvae and adult mosquitoes.

Two other ships were also negative and so were 61 houses for adult mosquitoes and 133 units for larvae.

Safaga:

Is 460 kilometers to the South of Suez. Population 800. No wells or any surface water present. 8 houses were examined for adults and 17 units for larvae — all negative.

Om el Howaytat:

Is 30 kilometers from Safaga. A very small village. Larvae and pupae of *Theobaldia* were found but no adults.

Kosseir:

Is 540 kilometers to the South of Suez. Population 5,000. A multicolor larvae were found in seepage water. Culex pipiens and Theobaldia longioreolata larvae were found in wells inside houses. A single larvae of Aedes aegypti was found in a similar well.

Five adult females of Aedes aegypti and 10 male and female Culex pipiens were caught in houses. 409 blood films from all the above mentioned ports were examined for malaria — all negative.

IV.-Siwa:

Siwa oasis was surveyed in 1950 for larvae mosquitoes and malaria. In 1951 all houses (1,059) were spray-painted with Gammexane wettable powder four times in February, May, August and November to investigate the effect of residual insecticides on mosquitoes and malaria by spray-painting without any larvicidal operations. (Breeding places in Siwa are so vast that it is practically impossible to eradicate mosquitoes through larviciding).

Results:

- (1) Ratio of positive units for anopheline larvae in general decreased from 9.5% in 1950 to 7.5% in 1951.
- (2) Ratio of positive units for A. sergenti larvae decreased from 5.6% in 1950 to 3.5% in 1951.
 - (3) Ratio of positive units for A. multicolor was not affected.
 - (4) Average number of mosquitoes per house decreased from 14 in 1950 to 5.4 in 1951.
 - (5) Average number of Culex mosquitoes per house was not affected.
- (6) Average number of A. sergenti per house decreased from 10 in 1950 to 3.2 in 1951.
 - (7) Average number of A. multicolor per house decreased from 3 to 1.3.
- (8) Effect of insecticide was greater on anophelines generally than on Culicine and on A. sergenti than on A. multicolor.
- (9) Malaria disappeared in infants and decreased in all other ages after spray-painting.
- (10) Spray-painting houses failed to eradicate anophelines but was adequate for malaria control.

C. Laboratory:

(a) Blood Films examined in the Laboratory During 1951.

Table No. 129

	Ros	gion				No.	37	D ::-	Species					
		g1011				of specimens	Negative	Positive	P. vivax	P. folci	P. malaria			
•														
Khosous	• • •	•••	• • •	•••	• • •	1,630	1,628	2	1	1	diameter.			
Sorsok	• • •	•••	• • •	•••	• • •	971	970	1	1					
Siwa	•••	•••	• • •	• • •	• • •	3,861	3,578	283	2	139	142			
Dakhla and	l KI	harg	a	• • •	• • •	1,038	1,038							
Red Sea	•••	•••	•••	•••	• • •	409	409				avenueded			
Inshas	•••	•••	•••		• • •	234	233	1	1	_	_			
,		Tor	TAL	***	• • •	8,143	7,856	287	5	140	142			

	ninia .o		6
	U. thulu	20 01 70 4 1	10
	xəluD egata tal		744
•	sutstrinu .O	1 4 1 51	61
	C. poricilepes		C
	C. deserticola		64
	C. puellus	1 1 6 1 1 1 1 1 1 1	829
Culicini	C. laurenti	270 524 116 117 1	1,741
	C. pipiens	125 146 5779 441 546 	3,025
	A. detritus	123	23
	eniges, A	109 123 123 351 2,700 10 10 10 10 10	3,436
	itqygəs .A	1 1 2 2 2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2	Sec.
	Theobaldia	22 126 142 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	215
	Uranotaenia	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	99
	92sts .tel	11 123 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	213
	Multicolor	3,100	3,128
eine	idnegres	3,243	3,243
Anopheine	sian9orad4	191 732 220 144 116 31 116 116 116 116	1,486
	siensi19glA	172	123
	instanoO	11 12 200	43
	inioiluO	509 808 817 1,540 4,251 1,540 1,540 1,540 1,540 1,540 1,540 1,540 1,540 1,540 1,540 1,540 1,540 1,540 1,540 1,540 1,540 1,623 1,630	9,398
,	ənilədqonA	6,673 139 139 139 139 139 139 139 139 139	8,284
sas	Mo. of specim	634 1,266 1,266 1,505 1,	15,370
	uo	Takhi ryice a ctrouh	*
	Region	Khosous Sorsok Ezbet el Nakhl Gabal Asfar Siwa Kharga Kharga Nag Hammadi Heliopolis Alexandria Suez Port-Said Ismailia Hurghada Kosseir Luxor Luxor Nersa Matrouh Special Service	Total

Table No. 130.—Mosquito Larvae Examined in the Laboratory during 1951.

TABLE No. 131—Adult Mosquitoes Examined in the Laboratory during 1951.

D!-		No of Speci-	Ano-	Culi-	Α	nopheles		Printer Control of the Control of th	Culicini	egister-principles registering.co	
Region		mens	line	cini	Pharo- ensis	Sergen-	Multi- color	Theo- baldia	A. aegy- pti	A.ong- pius	Culex
											Note: Special and the speci
Khosous	• • •	1,738	137	1,731	130		7	8		15	1.708
Sorsok	• • •	1,300	404	1,188	402		2	3	Stationer en	13	1.172
Ezbet el Nakhl		1,600	24	1,597	41		ļ	2		10	1,585
Gabal Asfar	• • •	1,506	9	1,682	7		2	1		194	1,487
Inshas	• • •	17	3	17	3	Processing.	~		_		17
Siwa	• • •	3,676	3,710	1,771		1,732	1,978	26	-	473	1,272
Suez	• • •	35	directions	25		-					25
Ismailia	• • •	7		7		-			_		7
Special Service	• • •	9		9					_	_	9
			-								-
TOTAL	•••	9,868	4,305	8,027	583	1,732	1,990	40	_	705	7,282

92 GET T 130 22 101 288 202 1,361 FU3 98 117 TOTAL 9 थं 10 einestinatU Others Theobaldia ೞ 10 3 一日 -aignod galalost 6.3 A. coustani C7. 10 10 lst stage 73 Anopheles Multicolor S 63 RABLE NO. 132.—YELLOW FEVER BRANCH — ANNUAL RECORDS OF 1951. еівдооля 44 Sergenti 2 07 Others 3 ∞ 07 17 11 9 533 Culex Laurents 92 105 50 82 144 167 1,144 85 105 88 81 94 **Pipiens** Others 10 18 10 16 ಣ 14 93 Aedes Caspius 2 CZ 22 Aegypti ಣ 01 ᄪ Empty 3 3 CV ∞ 40 Double sp. No. of Specimens 108 126 55 94 95 66 163 110 1,333 54 197 TOTAL January ... September October ... June August ... November December February March

No. of open lands positive for A.aegypti	1	1	1	1	1	-	.1	1	1	1		1	
Lo. of open lands positive for pupse		Conditional	-	1		1	1	1	1	1	1	1	
No. of open lands positive for larvae	98	8	C)	67	38	23	91	528	7	~	163	22	0
No. of units pupae	Į	.			1	1	1	1	1		Unappolito	1	
No. of Monases positive for pupae		1		1	1	1		1	1	1	,		
No. of units positive for other parvae	17	42	60	- 27	21	21	Z	204	eg I	41	100	protein)	3990
Mo. of houses positive for other servae	17	42	<u>ee</u>	27	21	31	71	es es	67	41	25	Ħ	333
etimu to .oM itqygas.A rot svitizoq	1	1		1	1	1		ಣ	1-			-	2
sesuon to .oM tqqgea,A rot evitiseq	1	1	1	1	1	1		ಣ	1-	1			65
Mo. of ansecessible	2111	157	1	308	267	165	166	127	139	276	265	235	2,316
Mo. of unaccessible	75	, , , , , , , , , , , , , , , , , , ,	62	105	08	र्द	2.9	40	37	75	27	2	263
No. of Mew units	1,041	973	1,464	1,470	1,046	1,049	2,589	2,066	1,843	2,189	2,119	2,000	CF of CF
No. of New houses	471	352	537	258	391	298	292	398	459	612	653	570	308,5
Mo. of vacant	400	455	494	533	387	326	392	429	340	969	1,032	7,553	13,041
Mo. of vacant houses	350	312	282	295	243	167	185	238	160	353	297	262	69 74 74
edinu besolo to .oM	10,975	8,591	9,982	13,407	10,035	7,575	12,546	11,384	10,157	13,129	12,788	10,952	EST, SE
Mo. of closed	3,860	3,807	3,929	4,229	3,306	2,043	3,128	2,996	2,870	3,964	3,406	2,952	40,490
stinu lo .oM benimaxe	101,009	177,088	82,708	106,686	88,032	59,711	93,262	77,616	69,173	101,027	93,919	82,366	135,593
No. of houses bonimaxs	49,528	39,736	39,637	47,087	36,524	25,393	39,641	37,103	32,386	44,891	41,408	39,029	000
	9	9 4	n 8 0	0 0	•	0 0	* * * * * * * * * * * * * * * * * * *	•	•	d 0 1	:	•	0 0 0
	*	•	•		•	*	0	:	*				
Month	:	•	•	*	!	:	•	•	H		Seed.	-	TOLE
Mo	January	February	M. reli	April	May	June	Tuly	August	eptul br	October	Nov July	D cemb	TC

TABLE No. 134.—YELLOW FEVER BRANCH — ANNUAL RECORDS.

	esqud			ti-dimension	Medicina	Name of the last o	ļ	•		-	estation and a second	1	1	· Parameter · Para	
or larvae	Non-	Aedes	115	921	<u> </u>	94	117.	70	108	92	35	162	188	. 83	90 62 63
Positive for larvae	Aedes		Addresses of the Control of the Cont		1		,	Motorway	1	ಣ	1		-	Н	↑
	Other places	4	33.427	24.175	30.775	40.139	32.756	24.920	30.765	28.049	27.691	42.231	35.106	32.923	382.657
	receptacles	Others	40.971	30.177	28.954	. 36.428	85.263	15.472	23.187	79.789	24.434	34.193	26.696	25.296	390.854
	Earthenware receptacles	Zeers	22.385	21.271	16.284	20.754	16.464	12.072	19.377	15.446	14.496	20.857	20.444	16.737	216.587
	Metal	receptagles	81.412	64.845	67.534	89.130	74.563	53.104	71.574	69.564	61.464	92.128	81.377	79.298	886.993
	Wooden	cologadooot	474	806	1.358	999	561	227	298	402	456	202	1.056	632	7.843
ling Places	Boxes		30.747	2.848	32.801	40.721	9.738	26.289	33.271	. 28.009	27.350	44.384	37.605	35.870	374.833
Breeding	Basins		7.426	5.767	11.137	10.525	9.720	6.875	9.627	8.764	8.455	10.778	6.745	7.473	103.292
	Drains		2.240	2.043	2.410	3.242	2.276	1.581	2.610	1.959	1.389	1.914	2.193	2.475	26.332
	Pits		6.598	6.832	6.305	7.876	6.387	4.415	5.984	5.301	5,689	7.724	7.619	7.545	78.675
	Wells		547	425	394	282	525	221		449	339	643	591	510	5.621
	Cisterns		1.425	1.092	1.356	1.672	1.384	1.093	1.364	1.205	1.205	1.542	1.256	1.423	16.017
	Fire taps		1.170	923	1.289	1.245	.1.260	993	1.386	1.316	1.140	1.477	1.177	1.179.	14.555
	Month		Jan	Feb.	Mar.	Apr	May.	June	July	Aug	Sept	0et	Nov.	Dec.	TOTAL

FLY BRANCH.

Experiments on fly control by different methods were continued:

(a) in a normal village (b) in a model village (c) in a sewage farm. (d) in a desert village and (e) in a town.

Different insecticides were used e.g. chlordane, DDT, Gammexane and Pyrethrum. The following methods were used:

- (1) Water suspensions for spray-painting mud walls and spraying breeding places.
- (2) Powders for dusting breeding places.
- (3) Solutions for painting smooth walls.
- (4) Mist for direct attack on flies or spraying W.C.s.
- (5) Fog for direct attack on flies.

The insecticides were applied in the following doses:

TABLE No. 135

Insection	ide		Form	Dilution	Dose of Pure Insecticide
			1		
DDT	•••	•••	50% water suspension	5%	2 mg./m ²
,,	•••	• • •	Kerosene solution	50%	2 mg./m²
)	•••	• • •	Heavy oil solution	20%	(fog.)
Gammexan	В		50% water suspension	8%	200 mg/m ²
9,9	•••	• • •	Concentrated solution 10%	5%	200 mg/m ²
9 P	• • •	• • •	10°/o powder (1.3°/o gamma)	as it is	130 mgs. gamma
Chlordane	• • •	• • •	40°/o water suspension	8%	3.2 gm/m ²
2)	•••	• • •	Kerosene solution	5%	2 gm/m^2
))	• • •.	• • •	40°/o powder	5%	0.5 gm/m ²
Pyrethrum extract	•••	• • •	15º/o pyrethrin	0.15%	direct spraying.

Estimation of results:

Poor result: over 50 flies on the grid.

Moderate result: from 20-50 flies on the grid.

Good ,, : less than 20 ,, ,, ,,

(1) FLY CONTROL IN NORMAL VILLAGES:

I.—By Dusting Breeding places:

- (i) Gammexane Alpha: (Aboul Nomros village, Giza). The village was treated weekly for 26 times. Result was moderate for 4 weeks during May after which readings increased till the end of the year. Resistance might have developed.
- (ii) Chlordane: Readings were less than 20 (good) for 14 weeks (from April-June) (Treatment was weekly) Failure then started and continued till the end of the year. The five succeeding treatments produced no effect whatever.

(iii) Gammexane and Chlordane: Konayesa village was treated with gammexane dust for four weeks followed by 5 % chlordane dust for 15 weeks. All results were poor probably due to resistance of flies. Attempts to overcome this resistance by direct flitting also failed. These experiments show that the insecticides remain effective for three months. Changing the insecticide may extend effectiveness for a fourth month.

II.—Spraying Breeding places:

8% o/o chlordane suspension was used in Sendion village in the middle of April. Results were moderate for six weeks, and poor afterwards. Spraying with gammexane was repeated in the middle of October but without success.

III.—Spray-painting:

Walls were spray-painted in Tersa village with 8°/o gammexane in the beginning of March and middle of April. Grid counts were below 20 and the spring peak was avoided.

In June and July, however, fly densities increased again and the treatment was repeated in August without any result, since it occurred during the autumn peak.

Pyrethrum was tried in the middle of October but gave very slight reduction of flies for one week.

(2) FLY CONTROL IN A MODEL VILLAGE (Inshas):

This village differs from normal villages in that it is well planned and clean and in that sheds are removed from dwellings.

Inshas was spray-painted twice in 1949 with DDT and gammexane successively and gave satisfactory results. In 1950 the treatment was repeated twice with DDT and results were good after the first treatment only for 5-6 weeks, the second treatment being a failure. A third treatment with chlordane was tried with success for 3 weeks only. In 1951 Inshas was treated twice with gammexane in the end of February and July. Results in both treatments were satisfactory for 5-8 weeks.

(3) FLY CONTROL IN A SEWAGE FARM:

Gabal El Asfar is a village with special surroundings since it contains a station for the treatment of sewage. Houses in Gabal El Asfar were spray-painted 5 times in 1948, 49 and 50 with 5°/o DDT, 7.5°/o DDT and 4°/o chlordane without any result. 8°/o gammexane gave a distinct decrease of flies for only one week.

In 1951 drying basins were dusted with gammexane for 5 times and fogging was applied using 2°/o DDT and Gammexane in heavy oil. Houses were again spray-painted with gammexane. All these measures combined failed to produce any effect on flies.

It seems that fly control by insecticides in such a place where breeding is so extensive, cannot be achieved.

(4) FLY CONTROL IN A DESERT VILLAGE:

Houses in Siwa were spray-painted with gammexane 4 times as a control measure against malaria. The result of these treatments on flies was satisfactory except the third treatment (September). This may be due to the normal Autumn peak which might have been worse still had no spray-painting been applied.

(5) FLY CONTROL IN TOWNS:

A.—Madbah District:

Control by dusting 6 times and fogging 6 times and flitting of outdoor W.Cs 5 times from middle of March till middle of November 1951 at an average of one treatment every 2-3 weeks. The municipal sanitary service did not co-operate in the plan of control as agreed. Results were relatively satisfactory since readings were from 100-200 (normally from 800-1000). For better results, co-operation of the competent sanitary services must be maintained.

B.—Port-Said:

Control by dusting breeding places with 10% gammexane (1.3% gamma), fogging with 10% gamma, gammexane solution, flitting with pyrethrum and gammexane, morning and evening together with spray-painting certain buildings with gammexane did not give as good results as in 1950, though grid readings fell to 300-500 after each treatment (normally from 1500-3000). Other sanitary measures were not carried out at all.

(6) OTHER EXECUTIVE WORKS IN TOWNS:

Spray-painting of about 570 buildings including houses, aerodromes, etc. were carried out as a control measure against flies, mosquitoes and other domestic insects. Results were satisfactory especially with bed-bugs.

Conclusions:

- (1) Dusting of breeding places or spraying them with suspensions may give good results in lowering the fly populations but after about 15 treatments, once every fortnight, the effect of the treatment diminishes. Change of the insecticide may result in moderate control for a month or two after which it is of no practical effect. This means that control of flies is possible to a certain extent in Spring and Summer but not in the following autumn.
- (2) Spray-painting of walls at long intervals helps greatly to reduce the population of fly for about two years after which it becomes of no value.
- (3) Spray-painting of walls is of no value whatever if breeding places are very extensive. In this case dusting may be of benefit for a short time after which it loses its effect even if combined with spray-painting (Gabal El Asfar and Port-Said).
- (4) Therefore for control of flies, breeding places must be eliminated or reduced to a reasonable level. Spray-painting can be applied at intervals for two years during which sanitary measures of removing garbage, refuse etc. must be carried out. Control of breeding places with insecticides should not be reverted to except in cases of emergency (e.g. epidemics).
- (5) Similar experiments should be carried out together with laboratory research to estimate the period and extent of resistance in flies.

REPORT OF PARASITIC INSECTS' BRANCH.

This branch undertakes field and laboratory studies of the following insects: Lice, bed-bugs, fleas and cockroaches. These studies include the life cycle of the insects, and their prevalence among inhabitants and best methods of control.

I.—FLEAS:

Three villages in Kaliubia viz. Salmania, Gaafra and Menaya were selected for the study of fleas, the first for the study of seasonal prevalence, the second and third for effects of insecticides on larvae and adult fleas.

Salmania:

All houses were surveyed weekly during the year 1951. It was found that whereas larvae were present throughout the year in all houses, the incidence of adults was variable. This points out the sensitivity of the larval indices.

Average larvae and fleas per house increases gradually from January till April when it reaches 20 larvae and 4 adults per house. From May to September the number declines gradually till it becomes 9 larvae and 2-3 adults per house.

Thereafter it increases again slowly in October, November and December.

This shows that the period from February till April is the most favourable for the breeding and spread of fleas and control should be tried during these months.

Gaafra:

The following insecticides were used to control fleas:

(1) 4% gammexane powder at the rate of 14 gms. /m?

(2) 10% DDT powder at the rate of 14 gms/m².

(3) 5% DDT in malariol at the rate of 100 c.cs./m².
(4) 0.18% pyrethrin at the rate of 80 c.cs./m².

Menaya:

In this village the effect of 4% chlordane powder at the rate of 14 gms./m² and 2% chlordane suspension at the rate of 40 c.cs/m² were studied.

Conclusions:

(1) The effect of powder is usually stronger than solutions.

(2) Effect on larvae is more pronounced than on adults.

(3) Nearby control houses are usually affected. This may be due to the blowing off of insecticide to these houses by wind or its spread by feet or clothes from the treated houses.

(4) Chlordane is the most effective of all insecticides and possesses a peristent effect

for the longest period.

(5) Next to chlordane comes 4% gammexane, then DDT.

(6) Pyrethrin has no lasting effect.

(7) Cost of control is almost the same with the different insecticides.

II.-LICE:

(i) Field work:

A.—Prevalence of lice was studied by examining the out-patients of Ancylostoma Hospitals. Three provinces viz. Giza, Kaliubia and Menoufia, were chosen for these studies.

(1) Out-patients represent the villages around the hospital.

(2) They do not change in clean clothes before going out to the hospital.

- (3) Highest incidence of lousiness was among inhabitants of Giza, followed by those of Menousia and lastly those of Kaliubia. The average rate of lousiness for the three provinces was 28.8% and the average number of lice per person 4.8.%
- (4) Males were more lousier than females.

B.—Tins containing 10% DDT and 4% gammexane powder were distributed to the inhabitants of Salmania for self dusting. Results were compared with other methods of hand dusting with dusters.

(1) It was found that this method is of no value in the control of lice.

(2) Most people dusted their beddings but not their clothes.

(3) Dusting of clothings was not uniform.

(4) The powder was consumed in 1-3 days only.

(ii) In the Laboratory:

(1) Breeding of lice colonies and study of the life cycle.

(2) Biological experiments on the effect of washing on DDT and gammexane impregnated-clothes.

Results:

2% DDT impregnated clothes remain toxic to lice after washing 4 times at 90°c. temperature.

Gammexane impregnated clothes remain toxic to lice after two washings only at 90°c.

(iii) Rat Control:

A.—In the Laboratory:

(1) Preliminary experiments with WARFARINE to study its toxicity on rats by mixing it in different proportions with potatoes. It was found that:

1 mg. per kilogram body-weight caused mortality after 8 days.

2, 3 and 4 mgs. per kilogram body-weight caused mortality after 6 days. (eyes and digits showed blood congestion).

5 mgs. per kilogram body-weight caused mortality in 5 days.

(urine and faeces contained blood).

(6 mgs. per kilogram body-weight caused mortality in 4 days.

(limbs congested with blood, rat pale).

Zinc Phosphid

(2) Experiments with 3% zinc phosphid. This poison has an immediate killing effect.

B.—In the Field:

3% zinc phosphid was tried in the Serum laboratories and Abbassia Institute and proved effective. After a day or two, however, it was noticed that dead rats decreased in number. This is due to the fact that rats avoid the bait after killing some individuals.

IV.—Control of Other Insects: (Bed-bugs and cockroaches)

Bugs proved easier in control than cockroaches which needed repeated treatments. During this year, control of these insects was established in 317 buildings using the following insecticides:—

L.G. 240 solution diluted at the rate of 1:50, 1:40 and 1:74.

L.G. 110 solution diluted at the rate of 1:40.

5% D.D.T. in kerosene and 25% DDT emulsion diluted to 5%. Octochlor in kerosene diluted at the rate of 1:40, using also 10% DDT or 4% gammexane powders.

All these insecticides proved effective on cockroaches and bugs, the residual effect on cockroaches lasted from 6-12 weeks depending on the degree of infestation before control. A second treatment 4 weeks after the first was needed for heavy infestation (50 or more). Lesser numbers of roaches respond quickly to the action of insecticides after one treatment.

YELLOW FEVER BRANCH.

The objective of this branch is the control of mosquitoes in general and Aedes aegypti in particular, within 3 kilometers around air ports and sea ports which receive planes or ships arriving from yellow fever areas.

The following operations are carried out:

- (1) Regular inspection of all breeding places within the defined area.
- (2) Weekly application of 5% DDT in malariol to breeding places.
- (3) Spraying of air-port and sea-port buildings with insecticides once every three months (this is carried out by the Mosquito Branch).

Areas of operation in 1951:

(1) Heliopolis; (2) Alexandria; (3) Suez; (4) Safaga; (5) Hurghada; (6) Kosseir; (7) Luxor; (8) Mersa-Matrouh; (9) Bellana.

Summary of statistics:

- (1) 1,337 specimens were collected during the year, 12 were positive for Aedes aegypti.
- (2) All Aedes aegypti specimens were found inside zeers.
- (3) These were collected between August and December from Hurghada and Kosseir on the Red Sea.

- (4) They were found in 12 zeers among 216,587 zeers examined.
- (5) The 1,337 specimens were collected from 1,135,597 units examined.

Surveys:

- (1) Canal zone in Suez and Fayed regions no Aedes aegypti larvae were found. The establishment of a unit is suggested.
 - (2) Zagazig region no larvae or adults of Aedes aegypti were found.

Recommendations:

- (1) The establishment of a team of 8 persons for larval and adult surveys of all regions.
- (2) The establishment of a mobile team for spray-painting dangerous places periodically.
- (3) A survey of the whole of Egyps for Aedes aegypti should be undertaken to estimate the extent of prevalence of this mosquito.

Chapter XXIII. - Bilharzia Snail Control

In previous years the Bilharzia Snail Control Section has been assessing the results of its treatment work by comparing the spring survey of the running year with that made in the following spring. For reasons of uniformity with other government departments it was decided to conform with the calendar year. Thus the following report covers the activities of the section for the remaining 8 months of the year 1951, from May to the end of December.

In the recently included large Delta territories, the work could not be extended to the full on account of financial, staffing and other difficulties, while a measure of control was carried in the old inspectorates of Fayoum, Giza, Aswan, Qena, Beni Suef, Kaliubia, Menoufia, South and Middle Behera, as well as in the oases of the Libyan Desert.

Snail Control:

The main spring survey of 1951 which serves as a guide for treatments, has already been given in detail in the previous report and only a summary of the total figures for all provinces is given below.

Table No. 136.—Survey of streams for the snail vectors of bilharziasis, spring 1951.

	Numbers	Length in kms.	Snails/ 100 dips
Surveyed	348,208	116,837	
Totals infested	37,406	30,775	
Inf. with Bulinus	31,046	29,299	11
Inf. with Planorbis	13,369	8,422	30

The treatment measures applied following the spring survey of 1951 are given in table 137. The cleared streams include those which were cleared under Law 29/1948.

TABLE No 137.—Treatment of streams, May - December 1951.

				Clearance		Sulphation				
Province of 1	Inspectorate		No. Streams	Kms.	Man/days	No. Streams	Kms.	Man/days	Tons Cuso ₄	
Fayoum			812 2,401 — 96 891 9 642 2,096 2,370 3,407 1,766 —	837 1,317 407 919 10 589 1,008 1,737 2,778 1,029	3,689 9,044 193 11,888 22,678 30,128 48,510 4,492	2,169 837 847 22.595 2,551 7,281 3,147 1,551 2,410 519	3,173 1,982 	4,335 4,089 7,375 6,996 5,573 9,075	220 182 9 153 143 171 186 197 237 245 171 15	
	TOTAL	• • •	14,512	10,653	166,417	26,774	21,598	54,356	1,929	

The Oases:

The repeated intensive sulphations, since 1946, of the heavily infested reservoirs and irrigation channels taking from various isolated artesian wells have practically eliminated Bulinus snails from their known places of occurrence. Lymnaea, the vectors of the liver fluke of cattle have been greatly reduced. A comparison of the total number of separate infections found in the oases since the beginning of the work and the present state of affairs is tabulated below:

TABLE No. 138.—Snail infestation in the oases (1946-1951)

			Wells or streams infested with									
Oasis			Bulinus trun	caius	Lymnaea cailliaudi							
			Since beginning of work	in 1951	Since beginning or work	in 1951						
Dakhla	• • •	• • •	72	0	112	2						
Kharga	•••	•••	15	0	68	0						
Baharia	•••	•••	72	1	159	75						
Total	• • •	•••	159	1.	339	77						

Application of Law 29/1948 relative to the control of snail vectors:

During 1951 the field staff of the provinces under control made 242,037 new field registrations of streams measuring 60,071 kms. and belonging to 260,990 owners. Of 45,136 streams, or portions of streams, requiring clearance, 11,191 streams, measuring 5,664 kms. and belonging to 21,808 owners were cleared by their owners while 16,108 streams, measuring 10,600 kms. and belonging to 77,043 owners were cleared by the section at the owners' expense, at a cost of L.E. 28,822. This sum is to be collected together with land taxes.

The Laboratory:

Snail examinations.—In former years, the routine examinations for bilharzial infection were handled from 2 laboratories, the Fayoum and the Cairo centres. During 1951, five more labs were established and staffed, in the Beni Suef, Menoufia, Gharbia, West Fouadia and Middle Behera Inspectorates, the main Cairo laboratory continuing to deal with Giza and Kaliubya Provinces. The examinations performed during the year 1951 are given below.

TABLE No. 139.—Snail examinations for Bilharzial infection, 1951.

Species	8	amples		Snails				
p horrow	examined	infected	%	examined	infected	%		
Bulinus trancatus .	1,980	226	11	55,599	1,354	2		
Planorbis boissyi .	457	120	26	38,990	2,047	5		

Survey of the Nile in Cairo area.—On the eastern bank of the Nile a stretch of about 12 kms, from the southern harbour of Athar-en-Nabi to the northern harbour of Rod-el-Farag, was examined for snails harbouring bilharzia infection and 27 out of 2,114 Bulinus were found infected with Bilharzia heamatobia. Snails and infections were distributed fairly evenly within this length except in a short pitched stretch between Qasr el Nil and Boulaq bridges which is not used by the population and where snails were few and infection absent. The shores of 5 permanent islands within the same limits were also surveyed and infections (11 out of 1,077 Bulinus) were found in the northernmost of these, Roda and Gezira islands, both lying in the residential zone of Cairo, especially in the narrow weedy channels separating the islands from the bank of the river.

Chapter XXIV-Leprosy Control

It has been the policy of the Ministry since leprosy control was started in 1929 to provide a main leprosy clinic in each capital of province with an isolation quarter and four branches in neighbouring districts for the examination, treatment and isolation of the largest number of lepers.

Under law No. 131 of 1946, the isolation of lepers is compulsory. Special leprosy colonies have been established and provided with all living facilities for the segregation of lepers and protection of the population against infection.

General Statistics:

During the year, a total of 1,843 persons presented themselves to leprosy units for examination. Of this number, 757 patients were found leprous, as compared with 2,055 and 1,086 respectively during 1950.

This brings the total number examined since 1929 to 35,469 of whom 17,579 were leprous.

Perusal of records shows that 118 out of the 757 found leprous this year were repeatedly recorded in more than one unit. This leaves 639 new lepers recorded this year as against 783 in 1950.

Of the 17,579 lepers on record since 1929, 4,455 were repeatedly recorded in more than one unit. This leaves 13,123 lepers proper on records at the end of 1951.

The following table No. 140 gives the number of lepers recorded during the year by the different main clinics and branches:

Table No. 140

. Unit	Branches	No. of lepers	TOTAL
Abu Zaabal Leprosy Colony		92	92
Amria Leprosy Colony	, 	38	38
Cairo Leprosy Hospital	Main Clinic Imbaba Karamidan Kaliub	20 109 17	146
Zagazig Leprosy Clinic	Main Clinic	27 ————————————————————————————————————	54
Souhag Leprosy Clinic	Main Clinio Tema Gerga Tahta Akhmim	32 17 6 15 4	74
Tanta Leprosy Clinic	Main Clinic	52 3 3 2 1 2	63
Minia Leprosy Clinic	Main Clinic Bani Mazar Abou Kirkas Samallout Mellawi	13 4 11 17 13	58
Alexandria Leprosy Clinic	Main Clinic	20 12 3 —	35
Mansoura Leprosy Clinic	Main Clinio	30 5 5 3 6	49
Shebin el Kom Leprosy Clinic	Main Clinio	17 25 1 8 11 14	76
Qena Leprosy Clinic	Main Clinic	7 6 5 6 3	27
Beni Suef Leprosy Clinic	Main Clinic	34 5 6	45

936 lepers were in segregation at Abu Zaabal and Amria colonies, Cairo Leprosy hospital and other unit segregation quarters at the end of the year as follows:—

Abu Zaabal	Leprosy	Colony	• • •	• • •		636
Amria	"	,,		•••	•••	261
Souhag	"	Clinic	• • •	• • •	•••	6
Tanta	2>	>>	•••	• • •		$\frac{2}{2}$
Minia	>>	9.9		• • •	•••	17
Mansoura	>>	; ;	***	•••	• • •	10
Qena	,,	17	0 0 0	• • •	•••	4
		To	TAL	• • •	۰.	936

The ratio of attendance for treatment was this year about 29%, as indicated herebelow:

TABLE No. 141

	Mor	n t h				No. of attendances (Visitors)	Rate
							%
January	•••	9	***	• • •	•••	14,215	30
February	•••	•••	•••	•••	•••	9,634	35
March	•••	•••	•••	•••	•••	11,721	31
April	•••	•••	•••	• • •	• • •	12,210	32
May	•••	•••	• • •	•••	•••	12,357	28
June	•••	•••	•••	•••	•••	10,201	24
July	• • •	•••	•••	•••	• • •	12,298	25
August	•••	•••	•••	•••	• • •	11,794	30
September	***	• • •	•••	•••	• • •	9,184	27
October	•••	•••	• • •		•••	13,075	29
November	•••	•••	•••	•••	• • •	11,079	30
December	•••	•••	• • •	• • •	•••	10,009	28

Treatment:

Hydnocarpus oil is used in the treatment of all lepers. This is given intramuscularly in a weekly dose of approximately 4 c.cs. The treatment with Sulphone compounds is still in the experimental stage at Abu Zaabal and Amria colonies. The results are so far good.

A total of 128,262 hydnocarpus oil injections weighing 545 kilogrammes were given to lepers this year as against 128,058 injections weighing 583 kgs. in the previous year. The number of dressings was 196,307 as against 203,134 in 1950.

The following table No. 142 gives the monthly details:

TABLE No. 142

-	M	onth				Number of injections	Quantity of oil	Number of dressings
January	• • •	• • •	• • •	•••	• • •	12,721	59,488	20,357
February	•••	•••	•••	• • •	•••	9,483	41,440	15,290
March	•••	•••	•••		• • •	10,318	47,412	15,964
April	•••	• • •	•••	•••	• • •	11,596	57,594	16,267
May	• • •	• • •	•••	• • •	• • •	11,703	49,256	16,416
June	• = •	• • •	• • •	•••	•••	9,188	42,883	14,549
July	•••	•••	• • •		• • •	11,286	51,634	15,436
August	•••	•••	•••	•••	• • •	11,265	52,630	16,055
September	•••	• • •	•••	•••	•••	6,859	32,214	15,218
October	•••	•••	• • •	•••	• • •	12,844	43,440	18,788
November	•••	•••	* • •	•••		11,954	36,320	16,026
December	•••	•••	• • •	•••	• • •	9,045	31,111	15,941
		roT	ral ·	••••	• • •	128,262	545,422	196,307

Besides leprosy treatment, lepers are also treated from other diseases from which they may be suffering.

ABU ZAABAL LEPROSY COLONY.

Patients:

Of 205 lepers admitted to the colony during the year, 92 (69 males and 23 females) have not been segregated in the colony before.

Discharges during the year numbered 209 as follows:

- 87 Went on leave and did not return.
- 63 Deserted.
- 45 Released from the Colony prison.
- 14 Died.

Causes of death were:

- 1 Pneumonia
- 1 Pulmonary Tuberculosis.
- 2 Heart Failure.
- 2 Bronchitis.

- 1 Cancer.
- 2 Oedema and Leprosy.
- 5 Enteritis and leprosy.

The number of lepers in segregation on December 31, 1951 was 636 as against 637 in the previous year.

Technical Works:

(1) Examination of the 92 new patients showed that 48 were of the anesthetic type, 3 of the tubercular type and 41 of the mixed type. Examination of the 113 re-isolated lepers showed that 69 were of the anesthetic type, 7 of the tubercular and 69 of the mixed type.

- (2) Bacteriological examination of samples from nose and skin of all lepers in segregation, numbering 636, gave the following results: 285 positive for nose 89 positive for skin 150 positive for nose and skin and 112 were negative for nose and skin. It was also revealed that 14 of the lepers were positive and become negative, 5 negatives became positive and 617 remained without change.
- (3) The annual clinical examination of all residents in the colony showed that the condition of 497 lepers improved, 107 remained unchanged and 32 deteriorated.
- (4) 37 cases of perforating ulcers were met with. All were treated and improved with the exception of 12 cases which were still under treatment at the end of the year.
- (5) Of 372 cases of leprosy reaction treated, 345 were light and 27 severe. All improved except 36 cases (33 light and 3 severe) which were still under treatment at the end of the year.
 - (6) A total of 102,290 dressings were applied to lepers during the year.
- (7) Surgical operations performed on lepers numbered 193. These included 102 incisions, 3 piles, 87 widening of incisions and one amputation.
- (8) 929 cases of skin diseases were met with consisting of 37 cases of scabies, 882 cases of dermatitis, 3 cases of tinea and 17 cases of urticaria. All the cases were treated and cured except 50 cases of dermatitis and two cases of tinea which were still under treatment at the end of the year.
 - (9) 18 cases of syphilis were treated.
- (10) 510 cases of medical diseases were treated during the year, namely, 3 cases of cholecystitis, 5 cases of heart failure, 390 cases of gastro enteritis and 112 cases of general debility. All the cases were treated and improved.
- (11) 121 cases of chest diseases were treated. These consisted of 2 cases of pulmonary T.B., 3 cases of asthma, 114 cases of bronchitis, and 2 cases of pneumonia.
- (12) 3,923 patients attended the ophthalmic clinic and received treatment. 87 surgical operations were performed during the year namely: 11 cases of dilatation of lacrimal canal, 2 excisions, 12 skin and muscle, 5 tarsorrhaphy, 15 conjunctiva, 4 leprotic nodules, 31 cysts and 17 trichiasis. The ophthalmologist paid the colony 38 visits.
- (13) 453 patients attended the dental clinic all of whom received treatment. Operations performed totalled 61 i.e. 59 extractions and two abscesses in the gums. The dentist paid the colony 42 visits.
- (14) Parasitic cases numbered 159 namely: 157 bilharziasis and two ascaris. All were treated and cured with the exception of 5 cases of bilharziasis which were still under treatment at the end of the year.
- (15) 327 samples of urine from patients and staff were examined at the laboratory of the colony and gave the following results: 157 bilharziasis, 75 salts and casts and 23 albumen.
- (16) 277 samples of faeces were examined and gave the following results: 2 ancylostoma, 27 ascaris and 26 other parasites.

Staff Clinic:

The staff clinic was attended 1,725 times by the staff and their families or a ratio of 5 attendances daily. The cases treated included:

5 attendances daily. The	cases	treated moradea.		
11 Renal colic.	193	Enteritis	5	Circumcisions.
5 Dysentery.	35	Bilharziasis.	2	Hemorrhagy.
4 Confinements.	87	Otitis.	17	Cystitis.
232 Incisions and wounds.	317	Collapse and debility.	447	Acidity.
8 Tuberculosis.		Malaria.	5	Eczema.
7 Ascaris.	25	Tonsilitis.	17	Scorpion sting.
175 Bronchitis.	3	Insomnia.		Constipations.
1 Piles.	33	Ophthalmic operations.	17	Teeth Extactions
I IIIOD.		Onhthalmia.		Urticaria.

2 Mumps. 2 Jaundice.

Social Activities:

1.—School:

15 lepres attended the day school and 18 lepers attended the night classes.

2.—Library:

The library was visited by lepers at the rate of 395 times per month or an everage of 11 times daily. Books were loaned to lepers at the rate of 147 per month or 5 books daily.

3.—Preaching:

Sermons are delivered during Friday prayers which have a good effect on the behaviour of the inmates.

4.—*Sports*:

A football team and a boyscout troop have been formed as a nucleus of a sporting club.

5.—Recreation:

Special interest is taken in the entertainment of inmates.

A troup was formed from among the inmates to present some theatrical performances for the entertainment of lepers. Special meals were offered on particular events, e.g. Ramadan and feast days.

Prisons:

15 lepers were in detention undergoing sentences at the beginning of the year.

115 prisoners were admitted to the colony prison during the year and 113 prisoners were discharged, leaving 17 lepers in prison at the end of the year.

Industrial activities:

The various small workshops within the colony continued to be manned by lepers and performed all the industrial works required of them satisfactorily. Lepers perform other duties, e.g. attending bed-ridden patients, library, food-distribution, hair cutting, etc.

Agricultural Activities:

About 145 feddans (acres) have been reclaimed by the end of the year. This area was cultivated by the inmates under the guidance of the agricultural overseer. It produced as much crops as was required by the colony.

Besides, the agricultural team looks after the gardens within the colony, grows trees for shade and flowers for ornament. It also looks after the cattle, specially the gamoose for their milk. A total of 14,910.750 kgs. of milk were produced this year.

Water and Power Plants:

- (1) The power plant produced a total of 50,649 kilo watts for lighting and water filtration.
 - (2) The pumping station lifted a total of 1,608,480 cubic metres of unfiltered water.
 - (3) The filtration plant filtered 140,992 cubic metres of potable water.
 - (4) The drainage plant lifted 46,331 cubic metres of sewage matter.
- (5) The small electrical and mechanical workshop attached to these plants carried out all the repairs and maintenance of the machinery.

Amria Leprosy Colony:

The number of leprs in residence in the colony at the end of the year was 261. All were treated with hydnocarpus oil. Sulfone compounds were tried with satisfactory results. A total of 10,568 treatments were carried out and 43,800 dressings applied. 8,164 injections weighing 29 kilogrammes of hydnocarpus oil were given to residents.

Entertainment of Patients:

The residents are entertained on special events and feasts on the same lines as in Abu Zaabal Colony. Traditional meals are offered during Bairam and other occasions.

Potable Water:

The Colony draws its potable water from Noubaria Pumping Station of the Army Service Corps of the Ministry of War some 30 kilometres away. Water is stored in tanks and supplied to the wards by pipes.

Light:

There are five electric generators in the colony for lighting. These generators have been in a bad working condition since taken over. A general overhaul is being undertaken.

Sentries:

A police force consisting of one sergeant, 2 corporals and 18 men had stood guard at the colony. But the force has since been reduced to such an extent that 3 policemen exchange duty at each of the two gates of the colony.

Cairo Leprosy Hospital:

This hospital has, since 1929, been used for the segregation of female lepers. Since the buildings are not su table for the purpose and the hospital lies in a crowded locality, arrangements have been made for the provision of a separate section in Abu Zaabal Colony for the accommodation of female lepers. This has been completed and the residents transferred to the colony. The hospital is now used as an out-patient clinic. It is proposed to use it as a preventorium for children of leprous parents.

Statistics:

Of 211 patients presenting themselves, 146 were found leprous. The remaining 65 patients suffered from other diseases.

Of the 146 lepers, 91 were of the anesthetic type, 45 of the tubercular type and 10 of the mixed type.

Out-patients:

Annexed to this hospital are three out patient clinics, namely:

- (1) Embaba clinic dealt with 20 new and 4,186 old patients.
- (2) Kara Midan clinic dealt with 109 new and 8,510 old patients.
- (3) Kaliub clinic dealt with 17 new and 3,034 old patients.

Treatment:

Hydnocarpus oil was again used in treatment. A total of 24,764 intramuscular injections weighing 78.252 kgrs. of oil were given to patients during the year. 7,714 dressings were applied to lepers during the year.

43 100 ∞ Residence Giza 36 38 CV ∞ Birth 47 9 4 23 Residence Kaliubia 3 (C) 4 24 Birth 42 3 36 9 Residence Sharkia 42 3 9 _ 34 Birth 3 0 4 07 33 10 Dakahlia Residence CJ 9 3 9 00 30 61 Birth 99 11 3 9 97 Menoufia Residence 99 112 H 10 17 CJ Birth 40 24 3 3 3 14 H Gharbia Residence40 200 9 9 9 14 H Birth 16 10 4 ___ \rightarrow 35 **Вевідено** Behera 17 888 10 A. Birth 100 Residence Suez Birth 0 65 Residence Canal Birth 68 Damietta Residence 88 -Birth 10 3 13 Alexandria Residence Inch inch O 9 [med] Birth 79 3 CJ 50 Residence Cairo 10 9 <u>r</u>-Birth • : • TOTAL : Unit Shebin el Kom Abu Zaabal ... Qena ... Alexandria Souhag ... Zagazig ... Mansoura Beni Suef Amria Tanta Minia Cairo

No. 143.—NUMBER OF PATIENTS IN LEPROSY UNITS DURING 1951 ACCORDING TO THEIR BIRTH PLACES AND RESIDENCE TABLE

3 3 146 13 10 67 16 51 13 757 Besidence Total 757 7 77 45 Birth 3 Recidence Abroad 00 Birth 10 ा ---5 C-1 Residence Sinai 10 0.1 GI Birth CI 50 Southern Desert Residence ?? **C1** Birth Western Residence Birth C-1 3 THE PARTY Residence Aswan 100 C.1 Birth 08 C3 Residence 0000 3 31 C.1 Birth enta enta 91 Residence Gerga 33 Birth 40 10 4 Residence Assint (CO) Birth 46 (C) Residence Minia 46 4 Birth <u>}</u>-4 CJ Fayoum Residence 10 4 CZ 9 Birth 13 40 4 Saef Residence 13 38 4 Beni Birth 0 0 TOTAL Clekin el Kom ... (уепа ... Beni Suef ... Alex ndria ... Mansoura ... Abu Zaabal ... Zagazig ... Minia ... umria ... Tanta

143.-NUMBER OF PATIENTS IN LEPROSY UNITS DURING 1951 ACCORDING TO THEIR BIRTH PLACES AND RESIDENCE (contd.)

TABLE No.

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	Deny Inf.	89	30	120	44	73	53	51	32	42	61	27	37	64
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	Copts		67	2	-	11	1	13	1	ī	က	4	22	4
70	Moslems	68	36	139	53	63	63	45	35	48	73	23	43	710
lepers	Foreignera		1	H		1	1	П	1	1	1	1	1	र
tes on	Egyptians —	42	38	145	54	74	63	22	35	48	70	27	45	20.
al Notes	DeirramaU	67	21	70	53	40	31	24	13	25	38	12	24	398
General	Married	29	6	92	25	34	32	34	22	24	38	15	21	320
	Lemsles	23	1	28	20	23	21	4	15	17	26	 1	15	193
	Males	69	38	118	34	51	42	54	20	32	20	26	30	264
as Tr	Ровітіво	92	00	146	54	74	63	58	35	49	92	27	45	127
Patients	Negative		1	65	35	1	211	6	19.	22	629	41	1	9801
No. of I	New Patients	92	38	II	89	74	24	29	96	71	755	31	45	1843 10
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	Uni t	Colc	ny	Hospital	spita	nic	:	:	Clini	Minic	om C	:	linio	TOTAL
		Abu Zaabal Colony	Amria Colony	Hos	Zagazig Hospital	Souhag Clinic	Tanta Clinic	Minia Clinic	Alexandria Clinic	Mansoura Clinic	Shebin el Kom Clinic	Qena Clinic	Beni Suef Clinio	To
	•9	Z nq	mria	Cairo	agazi	ouhag	anta	linia	lexar	Tanso	hebin	ena (eni S	
		IA	A	Ü	Z	02	I	4	A	7	S	0	m	

. S bns . N guipug S S Skin only Laboratory Nose only Pos. B. Neg. B. \vdash 21 and over ಣ LO 16-20 years ∞ II-I5 years **Disease** S 6-10 уевтв Duration of 3— 5 years II ಲ Two years ೞ ∞ S One year S ಲ 09 TOYO ಚ 09-99 23--13 ೞ 46---50 appearance of disease ಣ S ಬ 41-45 က ∞ ಣ S 36-40 S -1 ಣ ೞ 31-32 ∞ ೞ 08-92 patients ∞ ೞ ∞ ∞ 21-25 of 16-20 Age 11-12 ೞ ∞ ST. က 01-9 d -- I moni O 50 and over of Patients on ೞ <u>2</u> 1first exam 09-19 S ∞ 41-20 ∞ TOTAL ... Oena Clinic Beni Suef Clinic Mansoura Clinic ... Zagazig Hospital ... Cairo Hospital ... Shebin el Kom Clinic Minia Clinic Abu Zaabal Colony Alexandria Clinic Tanta Clinic ... Souhag Clinic Amria Colony

TABLE NO. 144.—NUMBER OF PATIENTS ATTENDING LEPROSY UNITS DURING 1951 (contd.)

PART V-RESEARCHES AND LABORATORY EXAMINATIONS

Chapter XXV—Summary of the Work of the Department of Laboratories

1.—BACTERIOLOGICAL SECTION.

The total number of specimens examined bacteriologically in the Central, Provincial and Branch Laboratories during the year 1951 amounted to 547,603.

2.—CLINICAL PATHOLOGICAL SECTION

6,608 specimens were examined in the Section during the year under review.

3.—CHEMICAL SECTION.

The total number of samples examined chemically in the Central Laboratories as well as in the Tanta and Assiut Laboratories, during the year 1951 was 93,509.

4.—WATER SECTION.

(a) Bacteriological Service:

The total number of samples of water, aerated water, ice and syrup, examined by this Service during the year 1951, amounted to 7,584.

(b) Chemical Service:

During the year under review, 1,578 samples of water were subjected to chemical analysis.

5.—ANTIRABIC INSTITUTE AND HOSPITAL.

During the year 1951, 9,895 patients attended the Institute at Cairo. Of these, 9,590 were fully treated.

The number of patients who attended the Antirabic units at Alexandria and Luxor amounted to:—

Alexandria: 1,309 of whom 941 were fully treated.

Luxor: 528 of whom 498 were fully treated.

6.—SERUM AND VACCINE LABORATORY, AGOUZA.

The following sera and vaccines were prepared during the year 1951.

Table No. 145

P Comments of the Comments of						
Sera and	Vaccines				Quantities Prepared	
			Thronto Phabelullet Bandupan			
T.A.B	•• •••	•••	• • •	4 = 0	648,875 ccs.	
Anti-cholera vaccine	0 6 0	• • •	•••	• • •	1,200,000 ecs.	
Anti-plague vaccine	0 r 0	e t e	• • •	• • •	180,000 ccs.	-9
Calf lymph vaccine	• • • •	• • •	• • •		18,325,000 doses.	
T):-1.1		4	,	. , (398,250 Bottles of 20 ccs.	
Diphtheria prophylac		mai "	toxo	1d){	2,500 Boxes(each for 1 person)	
Diphtheria antitoxin	0 4 8		* • •	• • •	2,895 Ampoules of 1000 I.U.	
Anti-tetanus			0 0 0	• • •	39,755 Ampoules.	
Anti-scorpion	c # • •	• • •	044		50,584 Ampoules.	
				-1		

Chapter XXV - Research Institute and Hospital to Tropical Diseases

The Institute comprises the following technical sections:

- (1) Helminthology.
- (2) Protozoology.
- (3) Entomology.
- (4) Biochemistry.
- (5) Clinical Patholog.
- (6) Pharmacology.
- (7) Haematology.
- (8) Bacteriology.
- (9) \ irology.
- (10) Radiology.
- (11) Cancer Research.
- (12) Experimental Animals.
- (13) Clinical section and Hospital.
- (14) Organic Chemistry.
- (15) Library.

The following units are also attached to the Institute:

- (1) Khanka Malaria Research Station.
- (2) Foyed Malaria Research Station.
- (3) Filariasis Research U it in Rosetta.
- (4) Filariasis Research Unit in the Pyramids Area.

Researches of the Institute for the Year 1951.

- (1) Amoebiasis in Egypt: Recent knowledge regarding its diagnosis, incidence and treatment with Aureomycin. By Dr. A. Halawani, Dr. A. Abdallah and Dr. M.I. El Kordy.
 - (2) Terramycin in the Treatment of Amoebiasis By Dr. Gamal Nor el Din.
- (3) On Pentachlorophenol and Pentabromophenol as Molluscacides in Prevention of Bilharziasis.—By Dr. A. Halawani, Nazih Latif and Dr. A. Taha.
- (4) Hormonal therapy in vesical tumours.—By Dr. Wadie Tadros and Dr. Gamal Nor el Din.
 - (5) Endemic Diseases Control.—By Dr. A. Halawani.
 - (6) Treatment of Tropical Diseases.—By Dr. A. Halawani.
 - (7) Aureomycin in the Treatment of Malaria.—By Dr. G. Nor El Din.
- (8) Recent Advances in the Treatment of Intestinal Parasites.—By Dr. Gamal Nor El Din.
- (9) Aureomycin, Terramycin, and Chloromycetin in chronic urinary infection.— By Dr. Gamal Nor El Din.
- (10) Recent views in the treatment of malaria, the trial of a new drug. (Abadel). By Dr. Gamal Nor El Din.
- (11) Resotren: A new therapeutic agent for Amorbiasic. A preliminary report. By Dr. A. Halawan, Dr. A. Abdallah, and Dr. M.I. El Kordy.
 - (12) Bilharziasis in Bilad el Nuba in Egypt.—By Dr. M.M. Dawood.

Summary of the Clinical Section Report for the Year 1951.

7,583 patients frequented the outpatient department during the year 1951. All of them were thoroughly examined and investigated. Among them, 1,641 patients were found suffering from organic diseases.

For treatment of Bilharziasis in the out-patient, a freshly prepared solution of Repodral or Stibophen was used. The dose given was 5 ccs. intramuscularly daily for ten consecutive days, i.e. total dose given was 50 ccs. per course for an adult weighing 60 Kgms. or more

1,268 patients were treated, and the general percentage of apparent cures was found to be 85%.

The number of patients infested with ancylostoma amounted to 927, 26% of whom suffered from severe anemia. Carbon tetrachloride was used in their treatment and 50.3% among those treated became negative for ancylostoma after a single purge.

868 patients infested with ascaris worms were treated with oil of chenopodium, or crystoids, or thick coated hexylresorcinol capsules, or Hetrazan tablets. A comparative study was done to evaluate the results of treatment.

Cases of taeniasis were treated with atebrin tablets, the result was 66% cures,

Cases of Hymenolepis nana infection were treated with chloroquine and Atebrin tablets, whereas Gentian violet pills, Alloxyn and Eggressin were administered to patients infested with Oxyuris. The results of treatment were comparatively studied.

In the in-patient, the study of the different brands of Miracil (Nilodine) in the treatment of bilharziasis by the oral route was continued during the year 1951. Different new drugs were tried in cases of amoebiasis and their therapeutic effects were evaluated. The incidence of Hepato-spleenomegaly in schistosomiasis, and its relation to the anaemia present in these cases is under investigation.

Report of the Chemistry Section:

- (1) A new spectrophotometric method has been designed for the assay of Fouadin and similar drugs.
 - (2) The absorption spectra of both Miracil A and D has been carried out.
 - (3) Gammexane was prepared in the laboratory on a small scale.
- (4) Pentachlorophenol and Pentabromophenol were prepared in the laboratory and their effects as molluscacides were studied.
 - (5) The Polarographic determination of antimony in the blood was carried out.
- (6) The study of the effect of bilharziasis on the levels of both sodium and potassium in blood has been carried out.
- (7) 3,172 samples of blood, urine, gastric juice etc. were analysed for different biochemical tests.

Summary of the report of the Bacteriology Department:

- (1) 3,261 specimens (Urine, blood etc.) were examined for different bacteriological and serological tests during the year 1951.
- (2) Samples were collected from cattle and sheep in Cairo, sera were tested by the C.F.T. for the Q fever. This work is continuing.
- (3) Smears were taken from the throats of out-patients to search for meningo-coccal carriers.

Summary of the report of the Protozoology Section.

- (1) A survey of the incidence of E. histolytica infection in some villages near the Pyramids was done.
 - (2) A new simple method for the staining of intestinal protozoa was done.

Experimental Animal Section:

- (1) Testing various compounds on bilharziasis in snails was performed, together with their effect on the corresponding snails.
- (2) The section follows the breeding of mosquitoes, its infection with filaria and the infection of monkeys and mice with microfilaria.
- (3) The section works at the present time on the maintenance of Trypanosoma cruzi in mice for future experimentation.
 - (4) Coccidiosis in rabbits and its treatment is under investigation.

Malaria and Entomological Section.

The section received 15,098 thick drops of blood for parasitic examination, as well as 571 samples for entomological examination, and 250 samples of snails collected by palm leaf traps.

At the Khanka Malaria Research station, all breeding places of mosquitoes were cleared and periodically sprayed with D.D.T. solution in malariol. Rice fields were also sprayed to control anopheles breeding. A survey was done in this area to find out if there was any relation between pellagra, intestinal parasites and bilharziasis.

27,294 thick drops were examined for malaria at the Khanka station during the year 1951 and positive cases were effectively treated. Similarly 11,462 blood samples were examined in the Malaria Station in Fayed and breeding places were cleaned and sprayed.

In Rosetta, blood specimens were taken from 4,465 cases and examined for microfilaria. Positive cases (4.1%) were treated with Hetrazan. Breeding places such as wells, swamps and stagnant lakes were filled in, and drains were sprayed.

Chapter XXVII—Summary of the Work of the Memorial Ophthalmic Laboratory Giza, 1951.

The work of the Memorial Ophthalmic Laboratory during 1951 fulls, as in previous years, under 4 main categories:

1.—Research.—Field experiments on the bacteriology, epidemiology and prevention of the acute ophthalmias continued, and considerable advances have been made in this connection.

As a result of extended trials at the Laboratory with new combinations of drugs, the treatment of this disease has become effective, safe and inexpensive.

With regard to the more important problem of prevention, this is now reduced to finding practical means of applying on a larger scale preventive measures which have proved effective in the experimental villages.

- 2.—Routine Pathology.—In the course of this year, 207 pathological specimens were reported upon. Nearly 6,000 bacteriological examinations were carried out.
- 3.—Clinical Department.—Many patients were referred to the Laboratory for special examination, second opinion or treatment. Some of these cases have merited publication in scientific journals.
- 4.—Post-graduate Instruction.—The members of the Staff of the Laboratory again gave courses of lectures and demonstrations to post-graduate students taking the Diploma of Ophthalmic Medicine and Surgery.

Library:

Again many volumes of journals and scientific books have been added to the library of the Laboratory, thus enriching its collection.

Museum:

During the year, 6 interesting pathological specimens were added to the museum of the Laboratory.

Appendix I. — REPORT ON THE WORK OF THE CENTRAL, GOVERNORATE AND PROVINCIAL MEDICAL COMMISSIONS DURING THE YEAR 1951

The Central Medical Commission;

The number of medical certificates issued by the Central Medical Commission during 1951 was 30,528 certificates.

Of this number, 14,822 concerned candidates for government service or educational missions abroad who were examined by the Central Medical Commission. These consisted of 11,038 candidates for permanent or temporary posts, 126 for educational missions and 3,658 for hors cadre posts.

58.63% of the first and second groups and 48.36% of the last group passed the medical examination. Of the 44.06% failures in the first and second groups, 26.18% failed in vision — myopia and trachoma accounting for most of them; 6.55% for defects of the urinary system. — albumen or traces thereof were the main cause; 1.02% for heart diseases—incompetency of the heart was the main complaint, and 7.25% for other diseases, e.g. varicoceles, hydroceles not treated or removed by operation, deformation, debility or respiratory diseases. Of the 51.65% failures in the last group, 34,16% failed in vision-myopia accounting for most of them; 8.58% for defects of the urinary system, albumen or traces thereof were the main cause; 1.01% for heart diseases, with incompetency of the heart as the main complaint and 7.22% for other diseases, e.g. varicoceles, hydroceles not treated or removed by operation, deformation, debility, flat foot or respiratory diseases.

A total of 13,414 medical certificates dealt with leaves granted to government officials reporting sick. These consisted of 9,599 pensionable and temporary officials and 3,815 hors cadre employees. Of those granted sick leaves by the Central Medical Commission or by the Cairo Medical Officers of Health and approved by the Central Medical Commission, 3,998 pensionable and temporary officials and 1,402 hors cadre employees were found suffering from medical diseases and 1,440 pensionable and temporary officials and 490 hors cadre employees suffered from surgical and ophthalmic diseases.

Herebelow are the diseases accounting for the sick leaves and the ratios of their prevalence:

TABLE No. 146

•	P. and	T. Officials	H.C. I	Employees
Diseases	Number	Ratio to total	Number	Ratio to tot
,		%	,	%
Nose and Larynx	273	5.01	42	2.22
Bronchi and Lungs	355	6.23	182	9.62
Heart and Blood Circulatory System	376	6.91	19	1.01
Stomach and Intestines	170	3-13	42	2.21
Liver	054	0.99	21	1.11
Kidneys and Cystis	141	2.59	4.8	2.53
Neurasthenia	176	3.34	8	0.42
Mental Diseases	328	6.02	247	13.05
Nervous System	094	1.74	3	0.16
Anaemia and General Debility	812	14.94	105	5.55
T.B	369	6.78	292	17.50
Syphilis	6	0.11		
Rheumatism	481	8.84	162	8.21
Fevers	43	0.79	26	1.37
Other Medical Diseases	320	5.88	166	8.77
Eye Diseases	171	3.25	41	2.17
Ear Diseases	50	0.92	12	0.63
Appendicitis	41	0.75	4	0.21
Herniae	60	1.13	17	0.89
Fistulae	. 33	0.64	33	1.74
Piles	123	2.22	41	2.16
Hydroceles	. 19	0.34	11	0.65
Urinary System and Stones	126	2.32	39	2.06
Various Surgical Operations	511	9.43	187	9 488
Fractures	· 226	4.00	84	4.47
Dental Diseases	80	1.40	21	1.11

^{60,324} officials and employees were granted from 1-10 days sick leave by Cairo medical officers of health and by Markaz and Sanitary outposts in all the provinces and governorates during the year 1951. Of these, 41,311 or 67.64% suffered from medical diseases; 13,527 or 22.42% suffered from surgical diseases; and 5,486 or 9.94% suffered from ophthalmic diseases. The total number of days sick leave granted to the pensionable and temporary officials only amounted to 238,422.

^{1,366} pensionable and temporary officials and 495 hors cadre employees in Cairo only were granted from 1-10 days sick leave by the Central Medical Commission or by Cairo Medical Officers of Health.

2,783 pensionable and temporary officials and 1,103 hors cadre employees were examined by the Central Medicial Commission but were not granted any sick leave.

4,072 pear ionable and temporary officials and 1,307 are cadre employees were granted from 1 to 30 days sick leave and over by the Cent al I edical Commission and by Cairo Medical Officers of Health.

The Central Medical Commission granted 26 pensionable and temporary officials longer sick leaves terminating by their retirement on pension; and pronounced 129 hors cadre employees medically unfit for further service.

PROVINCE & AND GOVERNORATE MEDICAL COMMISSIONS

A total of 43,629 medical certificates were issued by the Provincial and Governorate Medical Commissions during the year 1951.

TABLE NO. 147.—CANDIDATES FOR PILOT LICENCES EXAMINED BY THE CENTRAL MEDICAL COMMISSION DURING THE YEAR 1951

LICENCE			Fit 1st Session	Fit 2nd Session	Fit 3rd Session	Unfit lst Session	Unfit 2nd Session	Unfit 3rd Session	Total
Private Pilot	•••	• • •	35	1	1	30	3	1	71
Flight Radio Operator	•••	• • •	2	and the same of th		1			3
Commercial Pilot	***	* * *	37	congression	1	2	1		41
Airline Transport Pilot	•••	•••	27	2	***	2		continue	31
TOTAL	0 • 5	•••	101	3	2	35	4		146

Table No. 148.—Pilots Examined for Renewal of Licences

Lacence	Fit 1 t Secsion	Fit 2nd Session	Fit 3rd Session	Unfit 1st Session	Unfit 2nd Session	Unfit 3rd Session	Total
Private & "A" Licence	81	where will	dentarion	7	1	1	90
Flight Radio Operator	26			vestriantité	GARBON CONTRACT		26
Commercial Pilot and B Licence	93	1	ensoire-market	4	1	quinninal	99
Airline Transport Pilot	- THE - THE -	1	e	1	number of the second		2
Notal	200	2		12			217

TABLE No. 149.—ANNUAL REPORT ON THE WORK OF THE CENTRAL,

TABLE No.	149.—Ann	NUAL REP	ORT ON T	HE WORK	OF THE (ENTRAL,
-			,		(Objects of
						Number
		Fo	or Admission	n to Servio	9 1	
	Pen	nsionable an	d Temporar	·y	Hors	Cadre
	Fit	Unfit	Rejected In 1st Session	Rejected in 2nd Session	Fit	Unfit
Central Medical Commission	6,456	917	2,965	700	1,769	1,889
Provincial and Governorate Medical Commissions	648	222	72	18	9,193	9.147
Total	7,104	1,139	3,037	718	10,962	11,036
		,		Cause of R	ejection of (Candidates
						Dise
	Defecti v e	Vision	Urinary	System	Respirator	y System
	P. & T.	н. С.	P. & T.	н, о.	દું જ ભુ	н. с.
Central Medical Commission	2.965	1.279	732	314	. 76	42
Provincial and Governorate Medical Commissions	270	6,675	25	1.586	1	220
TOTAL	3.235	7.954	757	1.909	77	262

PROVINCIAL AND GOVERNORATS MEDICAL COMMISSIONS DURING THE YEAR 1951

Medical Examination

of Cases

		idates fo	07	. 1	For Sicl	k Leave			Înval	iding		For Determine of		Ot	her Exa	minatio	ons	Total
		in On	in ion	Grai	nted	Refu	ısəd	Ur	ifit	F	it	Ę-i				Other	Cases	To
Fit	Unfit	Rejected in 1st Session	Rejected in 2nd Session	P. & T.	н. о.	P. & T.	Н. С.	P. & T.	н, с,	P. & T.	н. с.	F. 88	Н. С,	P.&T.	H.C.	P. & T.	н. с.	
		-				the second secon												
89	19	16	2	6.816	2.712	2.783	1.103	49	183	19	47	77	307	1.168	3	275	164	30,528
				8.027	6.953	1,110	1.188	31	1,841	33	1,431	48	2,388		45	257	973	43.629
89	19	16	2	14,843	9,665	3,893	2-291	80	2,027	52	1,478	126	2.695	1.168	. 48	532	1-137	74-157

applying for Entry to Service

8888

Circulator	y System	Nervous	Syste m	Digestive	System	Other S	Systems	TOTAL		
7. % T.	н, о,	P. & T.	H. O.	P. & T.	н. о,	P. & T.	н. о.	P. & T.	H. C.	
115	37	2	_		_	729	218	4.619	1.890	
2	56	_			8	14	602	312	9,147	
117	93	2			8	743	820	4.931	11.037	

TABLE No. 150.—CLASSIFICATION OF DISEASES CONTRACTED BY OFFICIALS AND EMPLOYEES MEDICAL COMMISSIONS AND BY THE DISTRICT M.OS. IN CAIRO AND

				•								
												DIEE
					Anna Anna Anna Anna Anna Anna Anna Anna						,	Medical
·		1		2		8		4		5		ß ·
		and Larynx	Bronch! and	Lungs	Heart and	Cir. System	Stomach and	Intestines	**************************************		Kidneys and	Cystis
	P. & T.	н. с.	P. & T.	н. с.	P. & T.	н. с.	P. & T.	н. с.	P. & T.	н. с.	P. & T.	H. C.
Central Medical Commission	273	42	3 55	182	3 76	19	170	42	54	21	141	48
Provincial and Governorate Medical Commissions	2 88	171	1.067	911	480	213	713	512	53 5	200	411	310
TOTAL	511	213	1.356	1.033	856	232	883	554	589	221	552	358
								1			1	Dism

Surgical and 6 2 3 4 5 1 Eye Diseases Appendicitis Ear Diseases Hernia H H Ë H. н. С. ರ H. C. Ö Ö ರ 台 S 8 43 43 P.& H. 田 Ħ. d. 41 60 17 33 123 50 12 41 Central Medical Commission... 171 Provinical and Governorate Medical 56 86 70 57 136 129 56 24 75 59 Commissions 127 139 259 170 TOTAL 117 63 116 103 103 90 298 180 106 41

FOR WHICH SICK LEAVES WIRE

APPROVED BY TH				NO A TRIEN OTA J LT.

Dise	8808														ngurum distanggapagangang	٠		,											
	7		8		9	1	0	1	1	1	2	13	3	14	1.	1	15												
	Seption O. Tout		Mental Disoases	Nervous System	Cereb. and Cord	Anaemin and	General Debility	E	÷	,	Syr 11's		Syr ilis		Syr il's		Syr il's		Syr il's		Syr ilis					Other Medical Discasos		Тот	AL
P. & T.	H. C.	P. & T.	H. C.	P. & T.	H. C.	P. & T.	н. с.	P. & T.	н С.	3	j. C	P. & T.	н. с.	F. & T.	H. C.	P. A. T.	н. с.	P. & T.	н. с.										
176	8	3 28	247	. 94	60	812	105	369	292	6		481	162	43	26	320	166	3.998	1.402										
217	96	7	15	31	23	796	750	181	313	17		1.21	720	219	264	397	394	6.521	4.951										
393	104	335	262	125	26	16 8	861	550	605	23		1.693	862	262	290	717	560	10.519	6·35 3										
ASF	S																												
Onh	halm	io Di	40000					•																					

Ophthalmic Diseases

ASES

	7		8		9	10 11			11		
	Hydroceles	0	and Stones.		Operations		Fractures		Dental	TOTAL	
P. & T.	H, C.	P. & T.	н, С.	P. & T.	H. C.	D. & T.	, E	P. & T.	H. C.	P. & T.	н. С.
19	11	128	39	205	187	226	84	80	21	1.440	490
35	45	135	49	513	888	211	460	93	36	1.506	2.022
52	56	261	133	1.034	1.075	437	543	173	57	2.946	

Appendix II—DETAILS OF BUDGET GRANTS AND ACTUAL EXPENDITURES AND DETAILS OF POSTS

CENTRAL ADMINISTRATION

TABLE No. 151.—BUDGET CREDITS

	Budget	grants	Actual Ex	penses
Titles	1950	1951	1950	1951
TITLE I				
Salaries, Wages and	e			
Allowances	953,541	1,117,902*	877,619	954,195
TITLE II				
General Expenditures	1,720,050	1,599,825†	1,693,745	1,476,263
TITLE III				
New Works	798,250	951,620	635,577	471,381
TOTAL	3,471,841	3,669,347	3,206,941	2,901,839

^{*} A credit of L.E. 2,400 is included under this title representing salaries and allowances for the Museum of Hygiene.
† An additional credit of L.E. 170,000, included under this title, was granted by Law No. 22 of 1952.

DETAILS OF POSTS

Posts	1950	1951
Permanent Posts		
Senior Technical and Administrative Posts	868	907
Intermediate Technical Posts	725	776
Clerical Posts	705	736
Temporary Posts		
Technical Posts		1
Clerical Posts	198	201
Hors Cadre Personnel	5,146	5,515
Total	7,642	8,336

MEDICAL TREATMENT DEPARTMENT

TABLE No. 152.—BUDGET GRANTS

Title	Budget Grants		Actual Expenses	
71016	1950	1951	1950	1951
TITLE I				
Salaries, Wages and Allowances	475,800	523,802	399,362	70,947
TITLE II				•
General Expenditures	660,400	898,360	659,843	182,521
TITLE III				
New Works	. 504,500	275,700	139,807	160,169
TOTAL	1,640,700	1,697,862	1,199,012	413,637

DETAILS OF POSTS

Posts	1950	1951
Permanent Posts		
Senior Technical and Administrative Posts	6 6 7	757
Intermediate Technical Posts	291	352
Clerical Posts	174	204
Temporary Posts		
Technical Posts	143	173
Clerical Posts	48	50
Hors Cadre Personnel	3,766	4,581
Total	5,089	6,117

PREVENTIVE MEDICINE DEPARTMENT

Table No. 153.—Budget Grants

TITELS	Budget Grants		Actual Expenses	
TITLS	1950	1951	1950	1951
TITLE I				
Salaries, Wages and Allowances	588,660	644,000	587,599	611,875
TITLE II				
General Expenditures.	419,000	460,488	404,892	344,043
TITLE III				
New Works	117,700	84,300	81,110	5,575
TOTAL	1,125,360	1,188,788	1,073,601	961,493

DETAILS OF POSTS

Posts	1950	1951
Permanent Posts		
Senior Technical and Administrative Posts	356	366
Intermediate Technical Posts	516	531
Clerical Posts	420	436
_		
Temporary Posts		
Technical Posts	_	*
Clerical Posts	103	105
Hors Cadre Personnel	2,914	3,168
TOTAL	4,309	4,606

RURA! HEALTH DEPARTMENT

1 BLE M. 151. I DON'T COALIS

,	and t Girts		Actual Expenses	
TITLE	1-50	1 51	1950	1951
TITLE I				
Salaries, Wages and Allowances	247,524	273,991	204,750	228,095
TITLE II				
General Expenditures.	165,000	177,100	136,419	103,668
TITLE III				
New Works	327,400	446,500	123,931	115,550
Total	739,924	897,591	465,100	447,313

DETAILS OF POSTS

Posts	1950	1951
Permanent Posts		-
Senior Technical and Administrative Posts	267	186
Intermediate Technical Posts	455	499
Clerical Posts	261	282
Hors Cadre Personnel	3,651	3,788
Total ···	4,637	4,855

Appendix III.—STORES

The Stores Department continues as usual to provide the units of the Ministry with modern medical equipment and drugs. Besides, the Stores Department has during this year equipped the following new hospitals and units:

I.—Central Administration:

- (1) New bilharzia eradication units.
- (2) Mass bilharzia treatment.
- (3) Progressive bilharzia treatment.
- (4) In-patient sections within ancylostoma branches at Dessouk and Nag Hamadi.
- (5) Chest Diseases units at Aswan, Belkas, Deirout, Mencuf, Mellawi, Beni Suef, Suez and Assiut.
- (6) Two B.C.G. mass vaccination teams.
- (7) A preventorium at Port Said.
- (8) A technical statistics office in the Chest Diseases Section.
- (9) Child welfare centres at Ismailia, Suez, Damietta and Dekernis.
- (10) Two venereal diseases units at Belkas and Belbeis.
- (11) Application of the bilharzia snail law.
- (12) Health propaganda.
- (13) The Rabies branch at Alexandria.
- (14) Three malaria stations.
- (15) The bone surgery hospital at Helwan.
- (16) Amria leprosy colony.
- (17) Kassaseen sanatorium.
- (18) Sera and vaccines laboratory.
- (19) Insulin project.
- (20) The water section of the laboratories department.

II.—Medical Treatment Units:

- (1) Chronic diseases hospital at Helwan.
- (2) 26 general or district hospitals at Tanta, Hehya, Teh el Baroud, Maghagha, Abul Matamir, Biala, Kafr el Dawar, Faccous, Belbeis, Sherbin, Sinbellawein, Dessouk, Belkas, Manfalout, Sennouris, Abnoub, Tema, Abshaway, Menouf, Mallawi, Port Said, Deirout, Shukri Pasha, Bab el Shaaria, Mansoura and Bihout.
 - (3) An ear, nose and throat unit at Suez.
 - (4) A gynaecological section at Ayat hospital.
- (5) 15 ophthalmic units at Menouf, Hehya, Mellawi, Teh el Baroud, Abul Matamir, Bihout, Belkas, Deirout, Dirr, Inshas and Mataana.
 - (6) Four schools for pupil nurses.
 - (7) Dental sections in district hospitals.
 - (8) A treatment unit at Dirr.

III.—Preventive Medicine Units:

- (1) Five fever hospitals at Aswan, Dessouk, Gerga, Tahta and Fayoum.
- (2) Public Health Offices at Fouadia, Kafr el Sheikh, Sidi Barrani and Eastern and Western Desert Governorates.

The following new units were opened during the year:—

Three hospitals at Maghagha, Sennouris and Manshia (Shukri Pasha).

An ophthalmic branch at Sennouris.

A preventorium affiliated to Port Said Sanatorium.

A chest diseases dispensary within Marg Convalescents settlement.

A mosquito control area at Dakhla oasis.

Three public health offices at Giza, Ismailia and Hassan Pasha.

Two fever hospitals at Ayat and Dessouk.

Salama Abdulla child welfare foundation with a 12-bed in-patient section.

A 12-bed in-patient section at Suez child welfare centre.

A 10-bed in-patient section at Damietta child welfare centre.

A bilharzia control inspection at Siouf for northern Behera.

Two hospitals at Sollum and Sidi Barrani.

15 new village health centres accommodated in government premises at Tor, Mit Gharita, Mit Dorein, Kufour Negm, Kafr el Wekala, Dimeira, Abu Ghanima, Shubra Bas, Tanan, Beni Ebeid, Sanabo, Nazlet Emara, El Zok el Sharkia, Faw Bahari and Idlib villages.

A village health centre at Madmar, accommodated in rented premises.

12 public bath-houses outside the health centres at Beni Ebeid, Batanoun, Ganzour, Sers Layan, Sers Layan II, Maymoun, Naga Saba, El Bashna, Balvia, El Borsha, El Ezba and El Ghanayem villages.

TABLE No. 155.—Supply Transactions during 1951.

Subject	Number			
	,			
Questions submitted to contracts board	1,995			
Meetings held by contracts board	281			
General Adjudications	241			
Tenders submitted in connection of general adju-				
dications	1,304			
	,			
Local adjudications	141			
Tenders submitted in connection with local adju-				
dications with local adju-	132			
Number of contracts	626			
,, ,, agreements	4			
" " Local orders	164			
" " Foreign orders	21			
Forms 50 C.G. Payment Vouchers	3,023			
Purchases by negotiation	58			

Table No. 156.—Summary of Work of Stores

Department during 1951.

Kind of Work	Number
Receipt Vouchers	12,204
Issue Vouchers	55,044
Claims	1,500
Outward correspondence	126,011
Inward correspondence and forms	149,868
Postal parcels dispatched	12,214
,, ,, received	2.850
Railway parcels dispatched	54.300
,, ,, received	60.652
Workshop repairs	108.730
" new works	248.966